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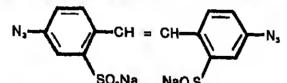
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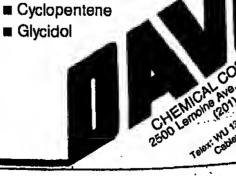
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- Propargyl Bromide
- Diphenyl Disulfide
- Sodlum Pyruvate
- 1-Amino Indane
- Cyclopentene



# CHEMICAL MARKETING CUES

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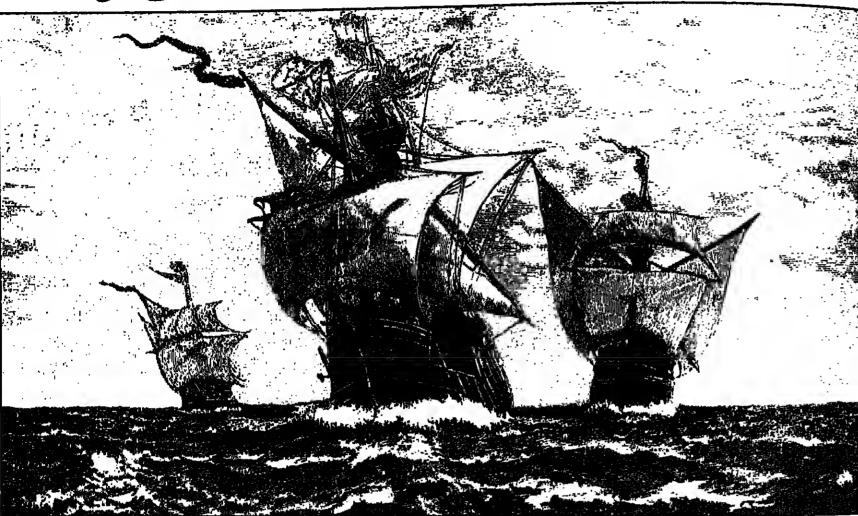
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# Pont Scores Victory in Aramid Battle

RLau Pont de Nemours Inc. scored another victory hattle with Akzo NV's Enka subsidiary Kis of one of the war of the court of Appeals upheid in the court of Akzo's fragon fiber into the US for the next five years.

Beriling ssys that Akzo's imports of "Twaron" standd violsted Du Pont's patent and damaged Liscompany's domestic market.

ibs Enks subsidiary moved to appeal the ITC mich covers yarn, pulp, paper and related forms higher, in January after President Reagan upheid In ruling. The Dutch government claimed the ig Fas unfair and ignored Akzo's previous counterimed Du Pont pstent Infringement.

limstill has the option of appealing the court decia bispokesmen for Enka say the company has not yet decided on a course of action. The market for the and selling rights in the US and Europe since 1980. annually. The recent court decision, it is estimated, will free between 5 percent and 10 percent of US market share for Du Pont's product.

Du Pont introduced its "Keviar" para-aramid fiber commercially in 1971. Its "Nomex" solvent-spun aramid fiber has been on the market since 1981.

Currently, Du Pont's "Keviar" is patented in 32 countries. Reacting to the court ruling, Richard Reese Pont pateots. Jr., director of Du Pont's Industrial Products Division said, "We are gratified that the court supports the ITC wss one of the most extensive ever conducted, and it is year plant on line in the Netherlands in 1985. significant in preserving Du Pont's rights under the US patent system." The two companies have been invoived in a series of dispute over aramid fiber patents

material worldwide is said to be growing 30 percent Recent developments in a growing Japanese market may add yet another stage to the conflict.

In 1983, Du Pont gained "Keviar" patent protection in West Germany, despite opposition from Akzo's German subsidiary. That same year, Enka filed sult in the US, claiming that Du Pont'a "Keviar" patents were invalid, and that its "Arenka" fiber, made by a different polymerization process, dld not infringe on Du

The foilowing year, Akzo was issued patents for its product in the Netherlands, despite Du Pont's opposiou this issue of inventors' rights; the ITC investigation tion. The company brought an 11-million-pound-per-

Du Pont has cailed "Kevlar" the "most important

Continued on Page 21

# larbide Sells Ag Unit, anadian PE, Buys UK Unit

the completion of the sale of its agrias a hroud. and business, the sale of some of its initian petrochemical business, and tamisition of some specialty gas as-

ble largest of these transactions, Cartail substantially all of its worldwide coloral products business to Rhone-lache for \$575 million in cash. On July 1988 Union Carbide an nounced plans to disagicultural products business. A time agreement for the sale was signed Rune Poulencine. on Nov. t3. The closadbesale of certain international porthe business is subject to local govadal and other approvals.

Carbide Corporation said that no raigainor loss is expected on the trans-

dizigal facilities of Union Carbide Agriand Products Company Inc., a wholly-billy bildiery of Union Cartiille Corpora-are located in Institute, W. Va.; such Triangle Park, N.C.; Woodhine, mon, lowa; St. Joseph and St. Lonis, with affiliate lacilities an, Alberta, Canado; Bezler, France; deleo Brazil.

agricultural products farilities of Carbide India Limited a re not har hubbl

is sie has been atructured to assure Carbide's continued ability to supply spedieral chemicals currently proalsallule, W. Vn., where agricultural also are manufactural.

thise, there are approximately 3,600 io Union Carhide's agricultural

Min Carbide took a number of steps higgest crop protection business in the world and will enhance its position in the US as well

plies wire and cable markets, or the polyethylene operation Carhide conducts for Petromont Inc. at Carbide's Montreal East netrochemical complex.

Closing of the sale is expected in February. Carhide Canada, which is a majority-owned affiliate of Union Carbide Corporation in Danbury, Conn., says the sale is not expected lo have a material impact on its linancial

In the third move, Union Carbide Corporalion announced that Union Carbide United Kingdom Limited, a wholly-owned subsidiary, has acquired 50 percent of Gas & Emigrapent, Ltd., a UK-based marketer of industrial and specialty gases.

Gas & Equipment, Ltd., is a supplier of living gases to the ollshore oil industry. It has subsidiarles in Norway, Singapore, and

Additionally, under the name of Gas & Equipment, Ltd., the mainly hellum-based activitics of Gas & Equipment will be combined with the existing United Kingdom Sperialty Gases business of Union Carbide. Gas & Equipment will concentrate on expanding its presence in the high-growth markets requiring specialty gases, such as the fastgrowing electronics industry.

"This venture represents yet another step In user effort to pursue high-growth markets where we can take a leading position," says
John II. MucLenn, president of Union Carbide's will make the third

# MC Sells Chloralkali Plant ©CanadianOxy for \$25 MM

on at Squamish, British Co-Ma, to Canadlan Occidental Meum Ltd. for \$25 million,

toperation employs 75 people and procaustic soda and 3,000 tons of muri-

Thy the local pulp industry.

Spamish facility will be managed and

Space of the control of the sion, which runs similar plants in Brilish Columbia, and Brandon, ha, as well as a aodlum chlorate plant it to the Squamish plant.

landry says the purchase of the lacility will improve CanadianOxy's er service the demand for cholorai-

the purchase agreement, Canadi osh and phosphates.

Corporation has completed its unOxy will supply hydrogen, steam and other with the chiors ikail busithinkesale of its chlorine/caustic plant that FMC still plans to bulld at plant that FMC still plans to bulld at nish "when market conditions permit."

FMC will also retain its existing hydrogen peroxide distribution facility at Squamiah, which was built in anticipation of the hydro-

gen peroxide plant.
FMC broke ground for the hydrogen peroxide plant in the Summer of 1985, but by Fall The products are used as bleaching of last year, FMC had begun to re-evaluate of last year, FMC had begun to re-evaluate the size of the facility because of predictions

of Industry overcapacity by 1990.

The company than announced in February that it was postponing construction because of other projects scheduled to come on line. Degussa Corporation, for example, is bringing an 80-million-pound plant on stream next

year in Mobile, Ala. In addition to its hydrogen peroxide activiniess, cost-effectiveness and abli-service the demand for cholorai-e purchase accessed to the demand for cholorai-other industrial chemicals, including sodar

# Chemical higgest crop protection business to the world and will enhance its position in the US as well as a hroad. In the second transaction Union Carbide Canada Limited agreed to sell its Moore Township, Ontario polyethylene plant and associated pulyethylene business to Novo, An Alberla Corporation. The sale does not include the part of Carbide's business that supplies wire and cable markets, or the

# **MDI Producers Say** Demand Rise Will Slow

Producers of diphenylmethane di-iso- the enactment of the new tax structure will product has grown from 6 to 8 percent this year. Yet, even as one producer prepares to debottleneck in the second quar-

have held pricing firm this quarter. Prices were increased by 4 cents per pound industry-wide late in the third quarter, and producers do not point to any attrition from that

Two producers say the industry has been running "flat out" for the past aeveral months. Another saya that this is much the case for three of the four producers, slthough the fourth "seems to have some (excess) materlal." That producer estimatea an industry operating rate of 90 percent.

BASF Wyandotte Corporation says it will debottleneck its Geismar, La., plant by April from 100 million to 155 million pounds per

The company says it made the necessary arrangements for the tie-in during an October turnaround, so that only a couple daya' downtime will be required in the Spring. Other producers say they balleve a fair amount of the new production will service BASF's parent company in Germany.
BASF's turnaround and a production pro

lem experienced by Rubicon Chemicsis, Inc., are said to bave contributed to the snug market picture.

"Inventories have been depleted trying to keep up with demand," says one producer, and another comments that "the markst is going to be tight for another six to eight months" until a greater abundance of material is available.

Another producer, however, downplaya talk of tightness in the industry: "The two (outages) caused a flurry of stories that supply was short; when sverybody's running,

A healthy year for the construction locus-A healthy year for the construction locustry has been a prims ingredient in MDI's growth this year, in soch applications as laminate board, foam and panelling.

However, there is widespread belief that became in the board, so widespread belief that became in the board, so widespread belief that became in the board, so widespread belief that became in the board of the board, so widespread belief that became in the board of the boar

cyanate (MDI) say that demand for their curtail construction. It is also believed that automotive demand will also drop as a result of the tax law and the unlikelihood that sales will be pushed as heavily as this year.

An anillne supplier to the MDI industry ter of 1987, producers say they expect comments that "construction has been little demand growth in the coming year. strong for the last two to three years, so Producers say that relatively snug market demand has been exhausted to some extent; conditions, reflecting the strong growth rate, guess it will be down a little bit next year, but

and it has not yet done so. Seasonally, aniline demand for MDI usually slows during the fourth quarter since construction generally declines during the first quarter, "but this year, things haven't slowed up," he says.

It is noted that aniline pricing tends to Continued on Page 11



# **Pesticide Restrictions Extended** For Food & Feed Products by FDA

Environmental Protection Agency has revoked the tolerances for aldrin, dieldrin, chlordane and DDT, four pesticide producta previously cancelled. Also affected are the tolerances for TDE, a degradation product of DDT. The agency has also revoked the food and feed additive regulations for DDT and its degradant TDE and DDE. The tolerances, which are the maximum residue levels allowable in food or feed, were

**Adhesives Plant Slated** 

H.B. Fuller Company, the St. Psul, Mina.

based manufacturer of specialty chemicals, plans to build an adhesive production facility

The new \$10 million plant, planned to open in September, 1988, will be part of H.B.

Fulier Company's Adhesives, Sealants &

The new 80,000 square foot sdhesive plant

will occupy nine acres of H.B. Fuller Com-

pany'a 40-acre site in Foothills Industrial

Park. Additional development of the site is

possible in the future, but as yet ia unsched-

The Rosevlije facility is designed to re-

place s amsller, outdated plant in Newark, Colif., which will gradually be phased out.

t987. The \$100 million unit is the largest to

use the Asahl technology after the 30,000-ton

plant of Akzo Zout Chemie in the Netherlands

**Specialty Products** 

Wickhen Producta, Inc., a supplier of spe-

cialty chemical matertals to the cosmetic,

pharmaceutical and allied industries, has

been acquired by Dow Corning Corporation

for an undisclosed sum, it was a nnounced last

Wickhen has headquarters and manufac-

turing facilities lo Hugenot, N. Y. and its Re-

con research and development centar in

Montgomery, N.Y. It will operate as a

wboliy-owned subsidiary continuing to serve

East Coast Service Center for Dow Corning.

Dow Corning personal and household care

industry manager Jere Marcinlak said, "We

are excited about tha ay nergy created by the acquiattion which will benefit the industries

"Wickhen's provan capabilities in active

antiperspirant saits, fine esteres and unique

polymer ayatema fit nicely with the silicone

technology, products and services we offer,"
Marchalak noted.

India in Potash Talks

The Indian government is reportedly hold-

Ing talks with Canadian officials on taking an

equity stake of 20 to 25 percent in a planned

potash mine in Manitoba. Indta is sald to be

and customers both companies served.

which was started up in 1983 and expanded in

In California by Fuller

in Roseville, Csltf.

Coatings Division.

not revoked at the time of the cancellations because of the persistence of these pesticides in the environment and the resultant expectation that residues would be present in raw agricultural commodities and related processed commodities for a significant period of tlme, according to EPA.

The revoked toierancea wlii be replaced with action levels which Food & Drug Administration will set and which are generally lower than the tolerance levels.

An action level is a temporary safety levet for on unexpected pesticide residue In a food not targeted for treatment. They are reviewed regularly to determine If ihey should be further lowered based on best current data on residues and exposure.

EPA says the lower aetlon levela should deter filegal use of these cancelled peatleides in the US and should reduce or hait the imporlation of foreign commodities which have been treated with bunned peaticides.

The ngency says the revocation rules also remove any advantage that foreign growers may have gained over US growers through their continued use of pesticidea that can no longer be legally used here.

Chlordsne is a pesticide once widely used to control inaects in many agricultural crops as well as on lawns, gardens and around the Continuad on Paga 17

### Columbian Sold To Phelps Dodge

Columbian Chemicals, the second largest producer of carbon black in the US, has been purchased for \$250 million by Pheips Dodge Curporation, Pheips Dodge announced. Phelps says the purchase is part of a larger effort to diversify and expand into new busi-

Headquartered in Atlanta, Columbian Chemicals produces apeclalty blacks and synthetic oxide in addition to its earbon biacks for the rubber industry. Columbian haa plants in Great Britain, West Germany, Itely, the Phillipines and Canada, as well as five carbon black plants and two aynthetic oxide planta in the US.

Columbian will retain its present manage-

### R&D Spending Set to Rise

The chemical industry will spend aome \$10.8 billion on research and development to 1987, with 97.1 percent to be industrially funded, according to an annual survey by the Columbus Division of Battelle, Inc.

The rasearch group forecasts total R&D expenditures in the US in calendar year 1987 of \$127.4 billion, a \$8.8 billion Increase over the \$118.6 billion the National Science Foundation estimates will actually be spent in 1988.

While part of the increase will be absorbed by contloued inflation, Battelle turea of 4.33 percent, slightly higher than the ten-year avarage rate of 4.26 percent In real R&D effort experienced alnca

For industry overall, support of R&D ia forecost to be \$83,8 billion, up 7.2 percent, while Federal aupport is expected to total \$59.5 billion, up 7.8 percent. Funding by academic institutions is expected to be \$2.75 billion and other non-profit organizations will provide \$1.45 billion.

The \$10.8 billion spent by the chemical industry on R&D ranks behind aerospace (\$23.8 billion) and electricat machinery and communications (\$21.4 billion), but ahead of machinery (\$10.1 billion) and air tos, trucks and other, transportation equipment (\$6.7 blillon).

## Monsanto Sees **Dumping Duties**

Moneanto Compony expects "subston-tiai" sutidumping duties to be impused on industrial phosphoric acid from Belgium and Israel.

The company's comments followed n ruling by Internotional Trade Commisaion that dumplog petitions filed by Monssnto and FMC Corporation are supported by sufficient evidence to justify further

The commission soid it found a rensonable indication that US producers of industrial phosphorle acld have been injured materially or have been threatened with material injury by the imports. The Commerce Department will now launch o full-scale investigation of the dumping

"We believe the duniped material is be-ing sold at prices in the US lower than hose at which it is sold in Belgium and Israel and that the exporting firms are receiving unfair aubsidies from their guvernments," Monsaoto sald laat week.

Monsanto said its share of the market has declined, prices for the product have falien and the company has been forced to lose a production unit in Kearny, N.J. Monsanto continues to make phosphoric acid at four other plants in the US.

### **Exxon Chemical** Asahi Adds to Count **Starts Resin Unit** Of Membrane Units

Exxon Chemical last week noted the onschedule startup of an additional plant manu-Caustic soda capacity based on Asshi facturing its "Escorez 5000" series of hydro-Chemical Industry Company's membrsae chloraikali technology will reach 1.3 million genated resins. The new pisnt is located at Exxon's Baton Rouge Chemical company and tons in 1987, including five new plants schedcomplements its existing facility in France. uled to come on line around the world in the according to the compsny, it was built in response to increased demand worldwide for A pair of new 20,000-ton units are expected wster-white tackifiers for adhesive and to start up in Chins next year and an addiseaianl polymers.

tionol t0,000-ton plant in 1988. Sumitomo "The plant reflects our commitment to the Chemical will bring on an 84,000-ton fscility adhesives and sealants industries," claims in Japan in '87 and Brunswick Chemicai James J. Protulipac, udhesion products in an-Company will add a 52,000-ton plant in the ager. "It provides our eustomers with a US source for these resins, which together with Largest plant in the offlng, however, is the our plant in France strengthens our ability to joint E.I. du Pont de Nemours & Co. and Oiin Corporation chloralkaii facility underway at Niagara Falis, N.Y. and scheduled for late

meet the needs of our eustomers worldwide. Because the US plant was designed fur easy expansion," he adda, "we'lt be ahic tn ve rapidly agnew hydrogenoted regins are ready for commercialization ond as demund increases for these apecialty resins."

### **Ruhrchemie Expands Dow Corning Buys Polyethylene Units**

Ruhrchemie AG, the Oberhousen, West Germany subsidiary of Hoechst AG, is expanding Ita production facilities for ultrahigh-molecular-welght polycthylcuc tu 20,000 tona o year.

Hoechst also producea the resin at the Buyport, Tex., complex of American Ilucciist Corporation. Ruhrchemie says llocchsl's company-wide production copocity for UHMWPE Is 32,000 tons.

The material is used in the mechanical engineering field, lininga of bunkera ond transport containers, implantation surgery and the sporls sector (artificial skl alopes, the needs of its cuatomers and evolve as an skittie alleya)

### **Fike Corporation Enters Joint Venture**

Fike Corporation, Blue Springs, Mo., aays it has formally joined Fauske & Associates, Inc., Burr Ridge, Ill., in a "unique arrangement where each company supports the other" to provide products and services related to Emergency Relief System (ERS) design for the chamical, petrochemical and other process industries.

Fike, with support from FAI, says it provides a broad range of laboratory apparatus and teating services for ERS purposes. It recently developed "vent sizing Package" test equipment and methodology that are used to obtain data for sizing aafety and relief valves, rupture dlaka, and other relief

# Chemica Marketin Reperte

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vatories has elected Quene L. Burnhem (left) vtce-cheirmen end Jack W. Schule They was and chief operating officer. They were most racently executive vice-presidents. Mr. Lawwill continue as chief finencial officer in addition to new corporate responsibilities and Mr. Lawwill be assponsible for ell Abbott domestic and international business units.

# **Advanced Materials Firms** Are Hot Acquisition Targets

industrial revolution is taking best acquisition options or his most suitable decemong the nation's high-tech compoles that will soon make metal door wkandaluminum beer cans as obsoless the old-fashioned milk bottle, acming to a study by JACA Corporation, in Washington, Pa.

The study forecasts that firms producing and "advanced materials" will double in present sales by 1990.

behandred fifty of these firms-mostly wately held—were analyzed in the study diound to be the "hottest acquisition" canlate for companies seeking diversificaand growth.

letirms, says company president James tommins, produce the goods that are des-zite replace ordinary metal products of

less advanced malerials are being used sch common, everyday commoditles aa dubs, bicycle frames, auto parts, body unts and even hrldges.

tesearchers have come up with whot Commins calls "a shopping list" of unmanufacturing, technology ond marhig that can help a CEO hetter locale his

pariners for joint ventures. The research also can help a company evaluate a competitor. or arrange a licensing deal for the new techwho are these companies?

Mr. Commins describes them as "indus-

trial sleeping dogs" and while the names of the firms are available only to I hose who buy the report, JACA says the companies have sales of \$3 million to \$100 million annually. fall into three categories-advanced composites, high performance ceramics, and high performance metala—and are primarily privately-held American manufacturing firms which produce for end-use markets.

Sales in one of these lechnologics-advanced composites—wili grow at an annual rate of 22 percent a year. By 1990, sales will reach \$3.9 billion, compared to \$1.45 billion

"We're in the days of a collapsing market, except in these industries," Mr. Commins observes. "What other business area do you know of that will double in four years?"

The study forecasts that the aerospace and the commercial and private aircraft industries will incorporate more composite parts, Continued on Paga 14

# For Use in the US by FDA

approved a new drug to treat a thadisease. mol leprosy that has grown increaslyresislent to other drug treatments. Mazimine will be marketed in capsule munder the trade name "Lamprene" Cha-Geigy Corp., which has made It allable as an investigational drug to ol 6,000 US patients since 1966.

(side in other parts of the world where Reare ahout 12 million cases of leprosy, or sen's disease. But there had been little solive to win approval in the US, where everal thousand cases were treated with

wever, with bacterial resistance ining to other drugs, the Public Health te's national Hansen'a Disease Centar wille, La., carried out two atudies on almine, and FDA designated it an "ordrug, providing incentives to develop, and manufacture an otherwise unprof-

olazimine not only acts to clear the uny lesions of leprosy, but also suppresses cliousness so that patients can circulate rely and function in society," saya FDA mmissioner Frank Young. The drug in-

Food & Drug Administration last hibita the growth of the bacteria that cause

Clofazimine is usually givan with one or more other anti-leprosy drugs, for leproma-tona leprosy, which is characterized by akin lesions that enlarge and apread and by nerve involvement that may cause loss of sansation and paralysis. The disease also can cause severe deformities and damage the eyes, kldneya, testes and membranes of the mouth,

The control and effective treatment of leprosy has changed dramatically over the past 45 years as drug therapy has become available. Early detection and treatment of the disease can prevent it from developing into a highly infectious tree of language and avoid highly infectious type of laprosy and avoid physical disability and disfigurement.

With appropriate treatment, infectiousoess la suppressed so that patients pose no risk to their families or other members of the community. In additioo, patients can be treated at home rather than being confined to coatly leprosariums. Long-term treatment

naually is necessary.

Leprosy has been known from Biblical times, but its bacterial cause was only discovered just over a cantury ago. The disease is not yet entirely understood, and research

# **Himont to Offer Shares to Public**

based polypropylene joint venture of Hercules Incorporated and Montedison SpA of Italy, sald Wednesday afternoon (December 24) that It plans an Initial public offering of 12.5 million shares of common stock, equal to a 20 percent ownership in the company.

A registration statemenl relating to the securities has been filed with Securities & Exchange Commission, but has not yet become effective.

A Hercuies spokesman said last week that details about the offering price of the securities and how the proceeds from the ssie will be used cannot be disclosed until a forms!

prospectus is issued. The offering will be made simultaneously through two underwriting ayndicates ied by Wertheim & Co. Inc., First Boston corporstion and Goldman Sachs & Co. in the US and Wertheim & Co. UK Ltd., Credit Suissc First Boston Ltd. and Goldman Sacha International Corporation abroad.

Himonl has granted the US underwriting syndicate an option to purchase up to an odditions 11.875 million shares.

Upon completion of the offennes, Hercules and Montedison will cach own approximately 40 percent of the outstanding shares of Himoni common stock.

In addition to the public offering, Hercules sisosaid isst week that Alexander F. Giacco vili serve as fuil-time chairman and chief executive officer of Himont.

Mr. Giacco early announced plans to retire

Himont Inc., the Wilmington, Del.- ss chairman, president and chief executive of ficer of Hercules, effective March 24, 1987. He has been chairman of Himont since its formation.

R. Michaei Hendrieks wili continue as president and chief operating officer of Hi-

The Hercuies-Montedison venture, for med in November 1903, is a worldwide menufaeturer and distributor of polypropylene and polypropylene-based products. The venture elaims to be the world's isrgest producer of



# 'Bendectin' Award Overturned In Federal District Court Ruling

A Federal judge in Washington, D.C., has overturned a \$1.16 million judgment against Merrell Dow Pharmaceuticals Inc. in connection with the anti-nausea

The overturned jury verdict had been en-tered on September 18, 1986, in favor of s 10-year-giri after a seven-week triai. Merreli Dow said the award was granted to the child and her parents despite the fact that the jury found that "Bendectin" was neither defective nor unfit and that Merreil Dow wes not negli-

In a t4-page opinion, Federal Judge Thomas P. Jackson of the US District Court for the District of Columbia, stated, "No reasonable jury could find on the basis thereof linat this infant plaintiff's birth defects were more likely than not to have been caused by

ber Intrauterine expoaure to Bendectin. In his opinion, Judge Jackson referred to the "now nearly universal scienliftc consensus" that "Bendectin" has not been shown to

be a teratogen, adding that "reasonable jurors could not reject that concensus without indulging in ... speculation and conjecture.

Among the experts testifying on behalf of Merrell Dow at the trial were: Dr. Raymond Seitser, dean and professor of epidemiology, School of Public Health at the University of Pittshurgh, Dr. Charles Epps Jr., professor of orthopedic surgery. Howard Univestity, Dr. Kenneth Rosenbaum, director of the genetics laboratory. Children's Hospital National Medical Center in Washington, D.C.; and Dr. James Goddard, former commissioner of

To date, there have heen eight other trials involving "Bendectin" in the US. In March 1985, a jury in a trial in Federal court in Cincinnati, which included approximotely 1,t50 plaintiffs, ruted that "Bendectin" did not cause birth defects. In four triels involving aingle plaintiffs, 1981, 1985 and 1988 two jury verdicts were in favor of Merreli Dow. In two others in 1986 one ended in a mistrial

Continuad on Paga 17

# **Asbestos Coalition Joins** Du Pont, Carbide, Other Firms

asbestos has been formed by E.I. du Pont de Nemours & Co., Union Carbide Corp., fact that this transition has already begun Standard Oll Company, Ashland Oil and scems to be one of the best-kept secreta

Rhodes-American. Rhodes-American.

Although many uses of aspeatos and values of aspeatos continues curlailed or discontinued, aspeatos continues curlailed or discontinued, aspeatos continues curlailed or discontinued aspeatos continues to be used in a wide variety of industrial, and residential applications. ulated leaders in various segments of Industry to begin the transition away from asbestos to non-asbestos alternatives," saya Du Pont's Thomas F. O'Brlen, a spokesman for the new Alternativa Materials Institute.

"As this transition to non-asbeatos materials gains momentum," he says, "government, industry and consumers need up-to-date information about the availability of alternatives to asbestos in such key end-uses as automotive hrakas and transmissions, December 29, 1986 CHEMICAL MARKETING REPORTER

A coalition to promote the availability gaakets and packings, and adhesives and and use of safe, effective alternatives to alternatives to aabestos. "Unfortunately, the around," says Mr. O'Brlan. Although many uses of asbeatos have been

commarcial and residential applications.

EPA has proposed to ban most asbestos uses. In 1985, about 450 million pounds of the product were consumed in the US - almost all of It tinported.

Mr. O'Brien says examples of alternatives lo asbestos include aramid fibers, ceramic fibers, carbon fibers, flexibla graphite, ateel fibers and various other mineral and manmade fibers.

equipment, rather than hard currency.

Inaisting on paying for its interest in the \$400 million project in the form of trucks and

December 29, 1986

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# Pfau Teamwork

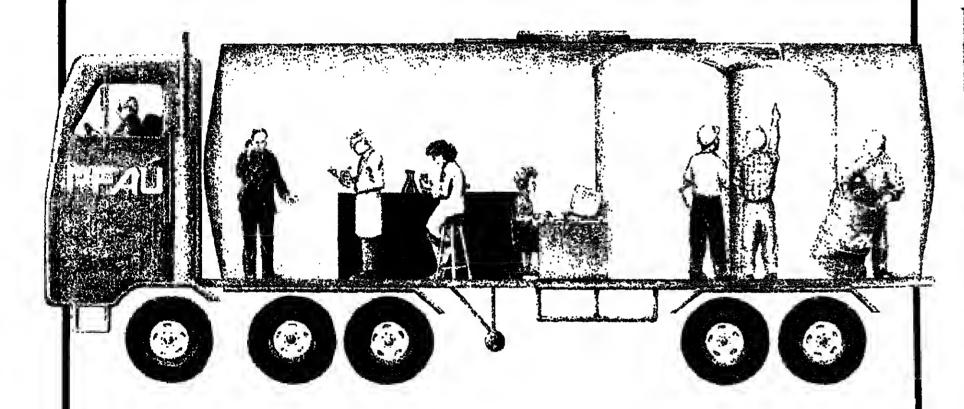
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Technical support

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# CH<sub>2</sub> Cl<sub>2</sub> Limit lrged by Union for Workplace

United Auto Workers says "there is no ificatioo" for Occupational Safety & Balth administration's detay in acting attemion's petition for an emergency twistdoo methylene chiortde to tower a permissible workptace exposure

The union called for immediate action afa the Labor Department unit denied the Weillon and announced it would carry ita kagiby rule-making process before ulaga decision on the chemical.

& Frank Mirer, director of UAW's safety Shalth program, says he hopes new OSHA ador Joho Pendergrass moves quickly on adoping a new standard.
Talire up to the promises already made,

Tall have in provide faster action in coming the rulemaking than it took to start

h Mirer complained that the 16 months il ACHA to deny the union's polition was and the projected tlote for final acsanother year and a half oway. "This is I'm long given the gravity of the public which. We are going to do everything we have dup the ilmetable," he says. It where says that since the union's peti-

## orea Steel Marts Output Mew Units

Continued on Page 17

Mea Steel Chemical Company, o unber of the Docwoo Group, hos Med production of earbon fiber and o family of water-soluble resins at ag South Korea. The company hos stell about \$17 million in the two

facily of the \$10 million, polyocryloni-based carbon fiber plant is 150 metric angally. South Korea's consumption of Meliberreached 120 tons last year and is and io grow at the rate of about 20 dolayear, the company says.

emphasis will be on domestic Chan-Wook Kim, president of Korea Chemical, says the company intends to an export market in the near future. that would allow it to utilize coaltar lower cost raw material. The pitch is ble from an existing plant at Pohang 17 million water-solubla resins plant mai production capacity of 1,500 tons Test Most of the product, to be sold under Carbosense" trade name, will be axdiothe US, Europe and Southeast Asia. tendent only producer of coaltar-based icals in Korea, also produces a grichema bulk pharmacauticala and hex-Mrophene. Sales in 1985 totaled about \$91 Holibe Daewoo Group were in axcess of

# **Vaccine Shortage Feared as Result** Of Gov't Campaign

group unable to be immunized because of faulty government and drug industry warnings about this Winter's new strain of "Taiwan A" flu, a public health group charged last week.

Dr. Sidney Woife, director of Public Citi-zen Healtin Research Group, said he has received nationwide reports indicating that so many people outside the proper high-risk group have sought and received the vaccine that supplies are low, and insome cases, have been exhausted already.

The problem arose in October when Dr. Robert Windom, assistant secretary for Health & Human Services Department, issued recommendations about who should get the vaccine at a news conference sponsored by the National Foundation for Infectious Disease, an organization largely funded by

the drug industry.

Newspapers around the country quoted Dr.

Windom as saying the vsccine should be

ply, leaving many people in the high-risk according to the Federal Center for Disease Control in Atlanta, the Talwan fiu vaccine is recommended only for those under 35 who aiao suffer from chronic diseases such aa herat and lung ailments, diabetes, anemia, asthma and kidney disfunction.

CDC's immunization practices advisory committee aays most people over 35 were exposed to the virus when it was last prevalent in the 1950's and still carry protective

Dr. Wolfe called the news conference a "blatant disinformation campaign carried out by the industry-funded NFID." William Smail, the executive director of NFID, conceded that news reports of the conference carried erroneous information, but denied there was an effort to misinform the public.

In a letter to HHS Secretary Otis Bowen, Dr. Wolfe said Dr. Windom "diapiaved hia ignorance about flu" when he gave the media "This backwards program promoted by a

Continued on Paga 41

# Fiber Optic Sensors to Grow

equipment markets, every segment of the fiber oplic sensor markel is enjoying exceptional growth, according to a new research report by International Resource Development, Inc., a consulting firm iocaied in Norwalk, Conn.

The company projects the US market will grow more than tonfold over the next eight years, to more than \$400 million in 1995. This compares with US shipments of \$30 million in 1986, the company says.

Fastest growth, according to the report, will be in "hostlic" applications, where the relatively high cost of fiber optic sen-sors is justified by their resistance to rugged environmental conditions such as exircmely high temperatures and electro-

Major applications in hostile environ-

aerospace, energy and metals, transportation, petroleum, and chemicals and plastics industriea. Particular applications include sensor systems for nuclear reactors, conventional power gerncrating equipment, turbines, jei engines, petroicum and chemical processing plants and other industrial environments characterized by exireme temperatures. highly flainmable materials, loxicity and other mistable conditions.

The atudy points out some of the advantages fiber optic sensors offer in hostile environments. For instance, fiber optic versus mechanical or electrical sensors are characterized by immunity to electromagnetic Interference (EMI), radio frequency interference (RFI) and radiation,

Continued on Paga 20

# **Textile Industry Had Better Year** In 1986, But Still Sees Problems

The textile industry in 1988 showed some improvement over the past year, but a record level of textlic and apparel imports kept o tid on the industry's economic recovery.

The Industry's annual economic report, compiled by the American Textilo Manufacturcres Instituto, shows that 1988 taxtile slipmants, valued at \$54.7 billion, were up 4 percent over 1985. Textile imports increased percent over 1985,

Importa of toxtlies and apparal combined renched an ali-ilms high of 12.7 billion square yards in 1086 and the textile and aprade deficit of \$21.5 billion was another record. It was the sixth successiva record year for textile and apparel imports.

For tha first time, imports of apparel and apparel fabric captured more than half of the domestic market in 1988, as market penetration reached 52 percent, according to the industry group,

Textile industry employment showed a one percent gain, avaraging 708,000 in 1988 compared to 704,000 in 1985. At the same time, average hourly wages increased 3 percent to

The same of the sa

ATMI presidant Dewey L. Trogdon. "Because the market is barely growing and imports continue to climb, the industry's impurved situation could be very short-lived.

"We are absolutely convinced that the industry's growth prospects and evan its sur-vival over the longer term are threatened unlass our govarnment takes the necessary steps to slow the growth of imports," Mr.

Trogdon aays,
"It is clear that we must have a legislative solution to the problem and we will be worklng with Congress on the introduction of leglaiation early next year. This legislation will accomplish what Prasidant Reagan It will relate import growth to d ket growth

"For 1988, industry capacity utilization has averaged around 90 percent," he said.
"This is to be expected in light of the plant

"This is to be expected in light of the plant closings and a 9 percent shrinkage of tha industry's capacity over the past five years. If this amount of capacity had oot been written off, our operations would be running at close to 90 percent of capacity," he said.

"While industry profits as reported by tha government, are well abead of a year ago, 1985 was a depressed period for industry production and sales," he said "Industry profits almost always improve as shipmants increase, but we do not know how much longer this can be sustained with virtually no mar-Textile industry earnings on sales were at 3.8 percent during 1988 compared to 2.4 percent in 1985. Industry lovestment to new plants and equipment was down four percent for the year to \$1.7 billion.

"Import growth has averaged over 20 percent a year during the past five years," says

# **OSHA Cites** Shell Oil Co. **At Deer Park**

istration last week cited Shell Oil Company's complex in Deer Park, Tex., for 81 alteged tostances of willfully violating Federal recordkeeping requirements and proposed a \$4,000 fine for

OSHA also cited the firm for three alleged aerioua violationa of respirator, hazard information, and shower and wash facility requirements and proposed \$960 in penaltiea.

bringing the proposed fines to \$244,960.

Shell denied any wrongdoing and aail it would contest the allegations. The company has 15 days to challenge the citations and the proposed penaitles before the Independent Occupational Safety and Health Review

"We continue to be concerned that some employers are Ignoring OSHA's injury and iliness reporting requirements, and when we find apparent wlilful recordkeeping violations, we will respond accordingly," said John A. Pendergraas, assistant secretary of labor, who heads OSHA.

In recent months, the agency lins citcuseveral companies for similar alleged recordkeeping violations, including Union Carbide, Chrysier, Fina Oil & Chemical Co., Du Pont, Monsanto and USX.

The alleged violations at Sheil involved aeveral types of injuries, including burns; back, cervical, groin and shoulder strain; contusiona; and inhalation of toxic sub-

The citationa resulted from an inspection which began June 16 at Sheil's hydrogen suifide manufacturing units at Deer Park as

Continuad on Paga 41

## **Damon Biotech** Breakthrough Wins US Patent

Danion Biotech, Inc., a majorityowned subsidiary of Damon Corpora-tion, says the US Palent & Trademark Office has approved a patent for the company's cellutar enhancer technique, a technology for large-scale production of new biological products.

Damon Blotech claims it has already ap-

piled its ceilular enhancer technique auccessfuliy to the production of tissue plasminogen activator (t-PA) and pro-urokinaae.

"The ceiluiar enhancer technique can be combined with our patented "Encapcel cell growth aystem to form an integrated manufacturing process for the production of blological products such as t-PA," saya Robert P. Schnelder, president and chief operating officer of Damoo Blotech.

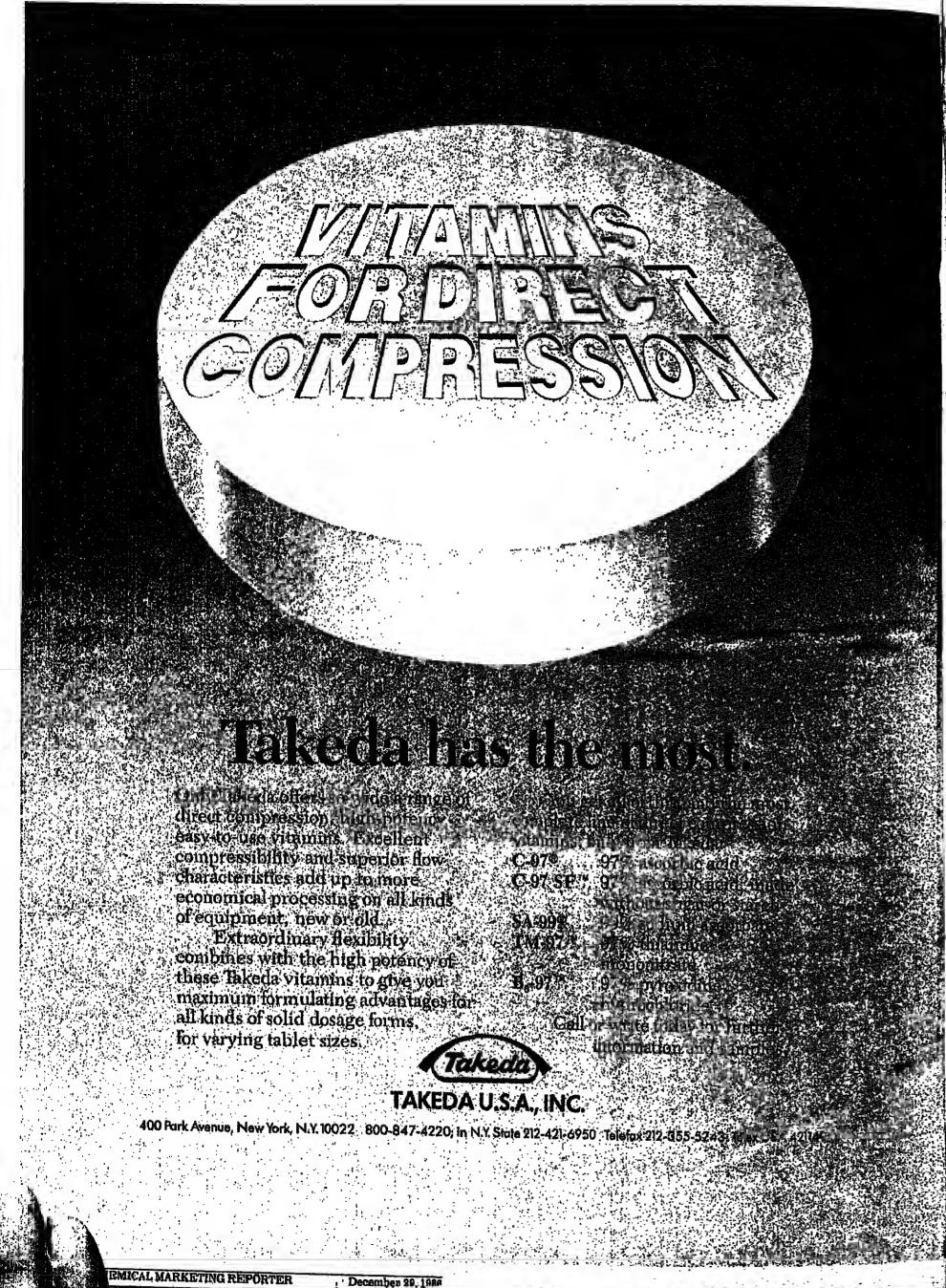
"We are already using this process to produce quantities of t-PA for pre-clioical trials and believe that this process will allow us to produce t-PA in greater quantities and at lower costs than competing companies. We are very pleased with the broad legal protection which this patent will afford for the proc-

The cellular enhancer was discovered at the Massachusetts Institute of Technology and ilcensed exclusively in the United States to Damon Blotech

A ceilular enhancer is a sequence of genetic material, which, when combined with tha gene for the desired biological product. significantly increases the production of that product from a mammalian cell. The patent will cover all tissue specific mammalian call enbancers.

Mammalian cells are the most desirabla production vehicles for many of the new btologicat products being developed by the blo-technology industry. However, these cells are difficult to grow in quantity and they produce a relatively small amount of product, which has made large-scate produc-tion difficult.

December 29, 1986 CHEMICAL MARKETING REPORTER 7



# **News Capsule**

### low Case Extended

now Chemical Company and Conners Power Company have asked for, adobisined, an extension of the recess in the trist between the companies until the adof January 1987. The two say "signifftest" progress has been made in negatla-tions required to farm a partnership to covert the idled Midland, Mich. marlear ion into a oatural-gas fucled, combined rde cogeneration plant.

### Capsule Unit Started

Warner-Lambert Company says conbyton has started on a plant at Sazhou, to produce empty hard gelatin capsed in pharmaccutical manufac-The company signed a \$14 million wenture for the plant with China Na-Corporation of Pharmacentical and cal Cooperation in July. Warnerbut will supply the machinery and mology necessary to produce can-

### Amesives Unit Sold

National Starch & Chemical Corpora inhas segulred Bassi Marchini & C. Spa. isisi sihesives maker lu Mezzago er Milan, Italy. Terms were not dis thed The Italian firm markets a range i producis, including polyvinyl acctate what melt adhesives to the packaging, porerting, bookbluding and woodwork-

### Kemira-Superfos Pact

Kemira Oy, Finland's state-owned forizer and chemical company, will take a percent interest in a new fertilizer subwary heing set up by Deninark's Supert Sales of the new unit, to be called officers, are expected to total tel \$200 million in its first year of oper-

### Marco Opens Center

sarco inc. has established a technical ices center in Salt Lake City, Utali to whe consulting services in various tes, including engineering, caviron intel sciences, research and security. lecenier consolidated Asarcn's depart sof environmental sciences, rearch and englacer ing Into a slugte unit.

### Pow Aids Fund

Dow Chemical Company suys it will more than \$400,000 this year ir withing grants to the Presidential lines investigators progrom adminisby the National Science Foundation. Me program supports the reses rehofoutand going science and engineering essors. The program began in 1984 bearly 100 of the 500 winners to date mpursulog chemistry or chemical engi wing research.

### Develops Coating

<sup>8P</sup> Chemicals says It has developed an dicorrosion costing and sealant system ch can he spplled underwater. The product is intended primarily for subamsintenance in the offshore energy

### Martin Marietta Sells

Martin Marletta Corporation has greed to sell an alumina refinery on St. Craix to an Omaha businessman for \$45 lion. The sale will mark the company'a inal withdraws) from the aluminum busi-



Kanneth N. Kermes, who hae baan nemad exec; utive vice-president of SmithKlina Beckmen Corporetion. He was most recantly executive vtce-precident of timence end corporeta development et Bleck & Decker.

## **Urea From East** Dumped in US, **Commerce Says**

The Commerce Department ruled last Wednesday that the Soviet Union, Ruinania and East Germany sold urea in the US at prices below the cost of production, it was reported last week.

The ruling requires importers to post bond with the US Customs Service equal to 04.9 perrent of the value of Soviet uren, 144.11 percent of cast German urea and bo.71 per cent of Rumanian urea.

The decision was prompted by a petition of the Ad Hoe Committee of Nitrogen Producers. The producers allege that shipments of East Bloc urca have risen to more than 22 percent of the US market, from about 3 percent in 1982.

The Commerce Department must make final ruling before March 10 and may adjust the dumping margins st that time.

Tire luternational Trade Commission then leas 45 days to decide if the Eastern-bloc urea has injured American producers by driving dawn prices and reducing domestic employ-ment. The commission made a preliminary ruling of injury in August.

# Sterling Drug **Buys OTC Firms** In France, Italy

Two European over-the-counter pharmaceutical companies have been acquired by Sterling Drug, Inc., it was announced last week by John M. Pietruski, chairman and chief executive officer of

Financial terms of the transaction were not disclosed, but the two companies are sald mbined sales of close to \$30 million onnually

The two companies are Laboratoires Valda, a fsmily owned compsny founded in Parls in 1902 with manufacturing facilities in France and Italy, and Laboratoire du Docteur Furt, a company based in Bordeaux. According to Mr. Pistruaki, the sequisitions "are important steps in Sterling's stated gosl to strangthen the comany's presence in these two key country markets.

Sterilog says that Valds pastilles are wellkoown throughout Europe, are market leaders in noth France and Italy, and have strong export sales. The company also makes and markets medicated gums.

# FTC to Hoechst: **More Information**

Corporation could be delayed until after the new year, when scheduled changes in Hocehst launce. the US tax code would make the deal less attractive to Ceianese shareholders.

Hoechst's US subsidisry, American Hoechst Corporation, sald last week that it has already supplied "voluminous material" in response to a second request by the Federal Trade Commission for additional information concerning the proposed merger, but that the FTC wants more.

For that reason, American Hoechst said, it could not give any assurances that the \$2.8 billion tender offer for Celanese could be completed by the end of this year. Cspital gains will be treated less favorably when provisions of the new tax law take effect

American Hoechst said it had been odvised by Celanese that some of its officers end irectors are aeriously considering selling some or all of their shares in the market on or prior to December 3i In order to recognize long-term capital gains this year.

The tax implications of a delay of the merger until 1987 is a "variable that cannot he dismissed," according to Jay Mcltzcr, chemical analyst at Goldman Sachs & Co. But he adds that there ere "still so many more pluses than minuses" about the deal the second largest maker of filament fiber.

Hoechst AG's acquialtion of Ceianese that even if it is postponed until next year, it

Hocehst launched a cash tender offer for sll 11.1 million outstanding shares of Celanese atock in early November for \$245 per share. Hoechst is also offering \$172.40 per share for all outstanding shares of Celanese convertible preference stock and \$102 per share for all the company's 7 percent preferred stock.

American Hoechst said on Wednesday (Deember 23) that it was further extending the expiration date of the tender offer until the close of business today (December 29) Sharcs previously tendered could be with-

As of the end of the business day last Mon-day (December 22) approximately 9.7 miln shares of Celanese common stock had been tendered to Hocchst, along with 13,864 shares of convertible preference stock and 20,466 shares of 7 percent second preferred

Analysts who saw synergism in the combination of the campanies' polyester fiber operations say that is probably what concerns the PTC about the merger of Hocclist and

The merger would make Hoechst the largest Us producer of staple pulyesier and



SHELL AT GEISMAR: Shell Chemical Company plans to build a second linear higher olefins unit at its Gelemer, La., plent. The naw unit, besad on Shall's higher olefin process (SHOP) technology, will have an annuel capacity of 535 million pounde of elphe olefine, as well as internel olefin cepacity. With the expansion, Shell'e overall capacity will exceed 1.3 billion pounds at Gelsmar.

# **DuPont Sells Off Polyester Lines, Citing Change in Strategic Needs**

completed the sale of its worldwide business for "Reemay" spunbonded polyester and the US-based business for

"Typar" apunbonded polypropylene. The buyer of these units is Reemsy, Inc. an affiliste of interTech Group of Charleston, S.C., a diverse group of manufacturing, specialty and other operating compa-nies. Terms ware not disclosed.

The sale includes manufacturing fscilltles for these products at Old Hickory, Tenn, ss well as associsted patents, technology and inventories. Not included is a manufacturing facility for "Typar" in Luxembourg and the European-based business for that product.

About 375 employees are involved in the production of "Typar" and "Reemay" st Old Hickory. The InterTech sfflliate is filling most of its employment needs from Du Pont

"Du Pont is selling these US-based buslnesses because they no longer fit the company's long-range business objectives," ssye Michsel B. Emery, director of the Engi-neered Nonwoven Structures Division in Du Pont's Taxtlle Fibers Department Jerry Zuckar, chalrman and chief executive officer of Reamay, Inc. and The InterTech Group, Inc., says, "reemay views the requisition of a limited use medica a significant part of a broad strategic plan to sponges and dressings and wipes.

E.I. du Pont de Nemoura & Co. haa expsnd into specialty markets associated terTech products."

Mr. Emery says, "Du Pont will continue to compete in the nonwovens market with 'Tyvek' apunbonded olefin, produced at the Spruance plant in Richmond and a new plant nder construction in Luxembourg, and Old Hickory's 'Sontra' apuniaced fabric, which serve different market segments and are

strategic to Du Pont's long-range plans."
He says the European business for "Typar"
is a strong performer in a distinctly different and more stable market primarily oriented to carpet backing. "The European carpet msrketfavors products for which the proper-ties of 'Typsr' as a backing are valued," he

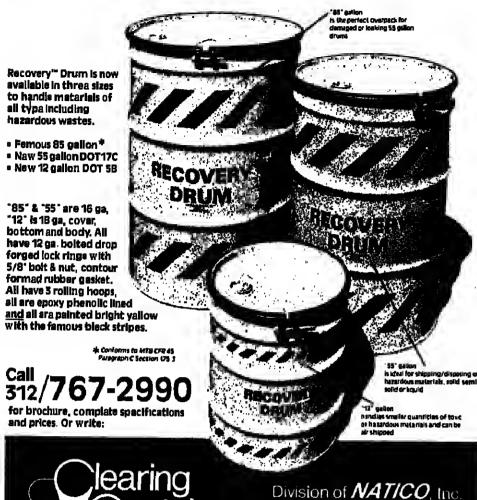
Primary US markets for "Typar" are g textlles, furniture, bedding and carpet backing. "Resmay" is sold mainly to the filtratton and interliner markets.

Principal spplications for "Tyvek" are courier packs, envelopes, maps, tags, labels, foll packaging laminstes, sterile packaging, house construction wrap, and protective disposabla and limited use garmants.

Major uses for "Sontara" comprise aramid substrates for safety apparel and composites, home furnishing face fabrics, inter-linings and limited use medical apparel,

December 29, 1986 - CHEMICAL MARKEFING REPORTER 5,

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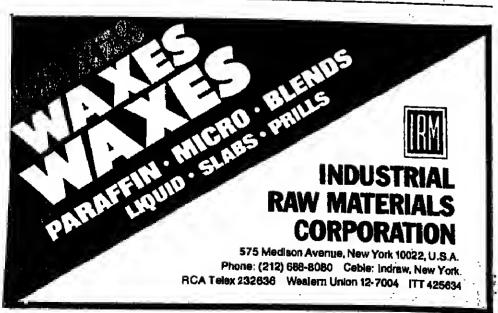
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# OILS, FATS & WAXES IROMATIC ORGANICS

de 1987 es a pass-along of higher

sent outlet in Europe during the

and is "just beginning to eatch on

me comments that this market.

o'ble embryo stages," could become

in Mon-pound-per-year North Ameri-

mand Mobay Chemical Corporation

Mare looking at it with interest, alsiked that "there are a lot of prob-

by knooed out," including a need for

almedable timber and concern sever

Stociaral RIM markel, a promising

the application, has not forced as well

many has reportedly delayed its in-mandated of some comparable

spend, effective January I for non-

designers and February I for con-

N-Atrader described the market last

de relatively quiet." us most activity

moved before the end of the year."

American pricing to Increase to \$1. f0 on

maler MDI in the forsceable future.

t'an one producer.

saddivened expenses.

RIMMARKET

# Peanut Oil Prices Slip Further DI Producers 17011 Prage 3 Buyers Backing Out of Market his benzene market fairly indicated an indicated and mid-month. The company, which produces all the site says it hopes to resume pro-

Peanut oll prices slipped further to round 25 cents per pound toward the sround 25 cents per pound toward the end of last week. The high price and low quality of peanuts has been prompting buyers of the oil to back out of the market, forcing oil prices down 6 to 7 cents per pound over the past six weeks.

Last year's huge peanut erop of 4.1 million toos cauaed a glut of oil to flood the merket. driving peanut oil prices down to 18 cents per pound - a level comparable to soy and corn

The unuaually low peanut oll prices unleashed a buying binge wblch, in turn, brought pricing back up to a level that could

Imported oil from Europe became cheaper than the US product, sources note. "Even with the 4-cent duty charge, the buyers were paying 1 to 2 cents less than US olis," one aays. "There was a panic selfoff about two weeks ago and that ran prices back

A severe drought over the Summer ravaged this year's peanut crop, which is 16 per-cent below last year's yield, but sources specuiste that there is sill surplua oil left from

"It wea assumed that the surplus oil from the 1985 crop was sold in the Fell," says one source, but "it could be that suppliera are now having difficulty because it wasn't sold and nobody needs any more peanut oil."

### **BUYERS HOLDING OUT**

Another source believes the slowdown in trade is due largely to buyers holding out for the Commodity Credit Corporation to unlood their inventory. The CCC reportedly has 54,412 tons of peanuts to dump into the morket, with 10,000 edible segregation 1 peanuts and 40,000 segragation 3 to be crushed. "Most of the purchasers know how much CCC haa ln stock and will wait until the crop goes out, says a USDA source. "They just don't bld now and auppliera are forced to lower their prices n an ettempt to sell I heir stock."

"It is fairly normal for markets to go down at this time of the year," says another source. "The CCC usually offers its stock at the end of FATS December, beginning of January. They like to dispose of their entire aupply by May."

Once buyers realize there is no more coming from the CCC the price should increase. However, with 1985 oil attil around prices probably won't skyrocket. "Buyera won't pay too high a price and sellers probably won't want to sit on the peanuts with some of loat year's atuff still around, but the price will

### **LATEST SPOT PRICES**

MARKET CLOSE DEC. 26, 1986

CRUDE VEOETABLE OILS	
Coconut oil, NY	lb20
Coconut oil, Pacitic	II. 20
CUMULINAND ON VANAU	
Linsend oil, Minneapolis Pelm oil, NY	
Paenul oil, Southeast (restricted) Soybean oil, Decatur	
and page out naceuttly	lb161/5

REFD. VEGETABLE OILS

oconut oil, I.w., NY.
om, jumbo tanks,
ottonseed oil, jumbo tanks, NY.
eanut oil, jumbo tanks, NY.
oybeen satad oil, NY.

OILMEALS

FATS & GREASES

Gresse, white, choice, tenks, divd., NY...ib. .13 Gresse, yellow maximum 10%, if a tenks... ib. .11% Lerd, loose, bulk tenks... divd., Chicago . .ib. .14% Tellow, inadible, lancy, tenks, divd., NY...ib. .14% Tallow, inadible, bloh., tanks, divd., NY...ib. .14%

### **VEGETABLE OILS**

OLIVE OIL — Italian B olive of the second state of the second ball of remaining fairly steady during the months and second rate of the second ball of October and November at \$5.40 to \$5.31. Its fairly in getting prices up. The says, market price for the Spanish oil was 11.00 to 12.00 to 12.

The use of chemicals in extracting the Boll havers look ahead with considerable has been prohibited, forcing producers for the potentially strong growth areas peatedly press the olivea to get the oil. The seneral has been MD1 can replace niethod may be tedlous but it is less experimentally be a provided by the proported by has been a

### PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP Corn oil, Midwast, 1/4c. per pound Roybean, 44% bulk, Decalur, \$4.10 per ton. Soybeen oll, Oecatur, 1c. per pound.

### CHANGES/DOWN

Coconut oil, NY, 1/2c. per lb, Cottenseed, 41% bulk, Memphis, \$5 per ton Peanul oil, &outheast (restricted), 1/2c. per lb.

### OILS, FATS INDEX

The Oils, Fels & Waxes index reflects the prices of 11 representativa materials in this sector and the quantity of each produced in 1985. 151.55 | wall the beginning of the next Dec. 26, 1988.

Dec. 19, 1986 . 80.76 PRENOL-A - Shell Chemical Com-Nov. 28, 1988 .89.83 mank increasing its selling prices by Dec. 27, 1985 ..

Chemical Prices Start on Page 24

sive and produces different grades of oll in Interpreted previously that Aristech coch press. The first pressing produces top grade virgin oil, the second is a lower grade lineary 1. and the third is lower yet.

Saing a contionation of the upward LARD - Lard was trading at 14%c per pound toward the end of last week, rising it. In the past three weeks.

Sources attribue this to a high export rate Allows mid-mouth level of 9Re. per with hog slaughlers on the down side. "If the a standard Oil will summonine its Janukilli is ilght then there is less lard produced. Michis work. snys u source, "Usually the kill is heaviet. Missene Hrmed as well last week, and The sluck hus boosted the price."

and the pergation. Xylene pricing The sluck hus boosted the price.

A health conscious public has become in the sholding steady at approximately that is also a specific to the stead of the stead erensingly oware of its cholesterol intake Palien. erensingly oware or its endestoreplace 20 1 milesion and fire ut I etrufing Canada cousing mony fast food chains to replace 20 1 milesion and fire ut I etrufing Canada mal fot with vegetable shortenings Now most of the lard is axported, wilb Mexico

TALLOW — The tallow market is cur TALLOW tanka priced at 14 1/2 c. per pound and ined bleach tanka at 14 Vic. per pound, both bas on New York delivery.

Suppliers report a fairly high or tight aupply. "Around Chrisimas people is ally eat more turkey than beel, say source. "This lessens the slenghtering of tle and naturally cuts down on the amoun tallow produced."

With palm oil now batweeo 1 %c lot per pound higher than tailow and with high price of coconut oil, buyars are tun to tallow once again. Egypt purch large supply of tallow a few weeks ago, ing a large chunk out of the current se and consequently affecting the price. In tion, exporters who oversold two and months ago, based on high production at the time, are coming into the mark cover the sales in a period of slack production.

Sources report the market on the firm and holding steady.

BTX at the site, says it hopes to resume productional the first of the year.

CHESOLS -- PMC Specialties Group, Inc. says it is increasing para-cresol pricing by Se per pound, effective January 1.

The price in bulk quantities rises to \$1.05; in draws, truckload quantities, minimum 24,000 pounds, the price increases to \$1.10

### PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

### **AROMATICS INDEX**

The Aromatic Organics Index reflects the prices of 14 representative malerials in this sector and the quantity of each produced in 1985.

Oh and sal Onland Sta	dan 0ana 94
Doc. 27, 1985	187.84
Nov. 28, 1986	187.84
Dec. 19, 1988	187.84
Dec. 26, 1986	167.84

who hoped carlier this year. General per pound; for less-lhan-truckload drum shipa six of its "Ficro" line of cars are neuls, the price moves to \$1.15 per pound. blum leveled off during the year, and

Bulk and trockload shipments are priced f.o.h. Chicago plant with minimum freight prepaid and allowed to US destinations East the Rocky Mountains. For destinations West, the price is 5c. per pound higher. Lessthan-truckload shipments are priced f.o.b. Chicago, freight collect. Terms are net thirty

An industry source comments that PMC'a move is "a continuation of o general trend" toward higher pricing in recent months. The two other US suppliers, Merlchem Company and Blddle Sawyer Corporation, which distributes for Synthelic Chemicala Limited of the HK, raised prices in October.

This stairee says there has been some tightwith involve "the logistics of gelting ness in the market lately, nttributable et ieast in part lu une company'a production in benzenc quote of \$1.15 was given. difficulties in Nuvember.

PITTHALIC ANHYDRIDE - Heovy export husiness, preduminantly to the Far East, has been recorded since August. For the Hiree-mouth perlud ending October 31, 18 million paumds of material were exported, compared with 3.7 million pounds for the previous seven months of the year, and 13 million pounds for all of 1985.

Should the recent export pattern continue, and producers expect it to lost into the first

# MOMATIC ORGANIC IMPORTS: OCTOBER

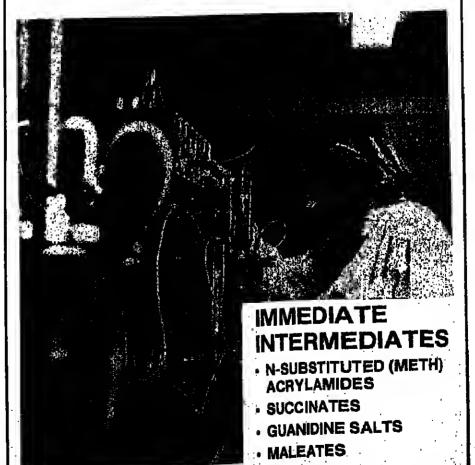
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		6,693,364	a,616,476	4,044,629 103,865
VB 3	ib. 165,000	42,582 1.541,626	396,247 13,171,746	956,601 16.906
ni of whitene	gol. 16,433 ib. 34,776,471	16,672 3,776,100	36,677 6,234,126	1,158,566
The state of the s	16 426 004	2,441 67,864	2,314,898	673,448
1 105. 1 100		26,636 258,430 . 533,061	1,440,668	56S,650
ANAS Land Under 76°C	lb	227,672	657,528	516,972
he snhydride		77,860 750,854	3,326,957 778,619	603,714 157,776
Monomer	lb. 77,601	77 666	1,625,360 27,205,444	1,935,285 3,122,772 8,284,463
11	6al. 6,400,683	8,026,129 285,025	9,221,627 470,464	654,110 4,648,690
390	gel. 4,970,542	6,554,668 2,054,763	6,314,310 2,457,328	2,116,736 8,362,442
	gel. 840,665 35,338	1,026,770 11,400	5,053,804 85,661	27,230.
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plant fund	ice, lar of, atc.	J.	الأستناس	13

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### **AROMATICS**

quarter of 1987, export demand in 1986 wouldbe two and one-half times greater than 1985, and would account for a 2.1 percent ocrease in overall production for the year.

Reflecting relatively steady domestic business, total production through the first nine months of the year was 3 percent ahead of last year's pace, and producera say they expect the growth rate for the year will raoge between 3 and 4 percent.

Producers say that demand could tall off ext year and return to 1985 levels. It is lleved that new tax laws may curtail demand in the commercial real estate, automoolle, and leisure vehicle markets. In addition, is noted that automobile makers made wide use of sales incentives in 1986 that may not be repeated next year.

Nonetheless, market pricing has bean firm ecently, producers say, and the eliminating of competitive allowances has been taking

PARADICHLOROBENZENE •

"This has been the calmest annual" tract negatiation (period) in years, ments one producer, since "suppliers

January.

TOLUENEDIAMINE — Air Products to satisfy tight availability of disconnection in the production process cuts-down on dictivence glycol output. This into the company announced late satisfies with industry-wide price increases January 1, 1987, the company announced late sated this month. Most if not all of last week. The new list price for bulk purchases will be 70 cents per pound, Lab. Pasodena, Texas; the new list price for truck. In the market have all informed a sources say, creating a situation in which it is the price in the market price in the market price in the market have all informed a sources say, creating a situation in which it is price in the market price in the market have all informed a sources say, creating a situation in which it is price in the market price in the market have all informed a sources say, creating a situation in which it is price in the market have all informed a sources say, creating a situation in which it is price in the market have all informed a sources say, creating a situation in which it is price in the market have all informed a sources say, creating a situation in which it is price in the market have all informed a sources say, creating a situation in which it is price in the market have all informed a sources say, creating a situation in which it is price in the market have a source say.

The price increase is the first for mtoluenediamine since July 1984.

ORTHODICHLOROBENZENE

**CHLOROBENZENES** 

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# sold ont." Market tightness is said to be a lated to widespread downtime in the Industry IPHATIC ORGANICS during the second half of the year.

# during the second half of the year. Producers say a major concern of their is rising feedstock orthoxylene costs. In October, when phthalic pricing was last learned creased, orthoxylene was priced between the producers and 13% c. per pound. Pricing lo December has been reported at 13% c. per pound and orthoxylene producers are said to be a similar for a % c. to 1c. per pound increase for January. Most Major Producers water ratio in the production was priced between the production water ratio in the production of the production and orthoxylene producers.

Sectioners that as of Jan. 1, diethylene wides will be raised 2c. per pound. Carlide also announced a 2c. ner and Dec. 1 for buyers in the spot Oher major producers, including aid to be supporting the industry-

rimery reason given for the price helight supply situation facing the likelight supply situation facing the likelight supply situation facing the lighter product lighter yet.

If the tightness are unclear, adde various possibilities for the lightness are unclear, warries as high as they are there

nies as high ns they are, there and supply of diethylene given!"
The wither points out that one of the triethylene glycol, is seeing due to relatively slow gas pro-You would think that this would gein diethylene glycol availahil-

MOUSESTRENGTI

iss, though, are enjoying a good batifreeze. "This season started wiles caught up to previous years," bisity source. Anti-freeze demand au like gangbusters in November," the (elhylene glycol) system,"

dishylene glycol.

Missignaled polyester resin market ts

deerloraling prices over the past

### PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

**ALIPHATICS INDEX** 

The Aliphatic Organics Indax raflects tha prices of 20 representative materials in this sactor and tha quantity of asch produced in 1985.

Dac. 26, 1986. 222.80 Dac. 18, 1986., 222,80 Nov. 28, 1988 .. 222.80 222.80 Doc. 27, 1985.

Chemical Prices Start on Pege 26

more profitable to export the material than to sell it domestically, they add.

HEXADECENYLSUCCINIC ANHY-DRIDE - The Humphrey Chemical Company has announced that it is roising the ternsaction price on its bexadecenvisuccinic anhydride by He. per kilogram, effective for Mer, who notes that whether or not shipments made on Jan. 15. The price like Amengence of fill-in orders for Jan- applies to the company's synthetic paper size on the severity of the weather grade material. Humphrey indicates in-The strength of demand this sen- ereased production costs as the mollvator for the herease. Another supplier is said to be bier source, indicating part of the planning a price like as well, citing an inthe saug supply of holh ethylene crease in pricing of hexadecene, a row material for the anhydride.

METHYL ETHYL KETONE - Shell the fell this year, necounting for Chemical Company has announced o price deliving the first the property of the first the fir Man have led some producers to ment, 25c.; Southwest, 23c.; Mid-Continent, 25c.; Southwest, 234c.; West, 254c.;

The price decrease is described by Sholl as

\$ VALUE 412,858 528,285 18,218,245 2,341,717 3,327,254 1,305,643 1,216,181 514,334 448,458 4,270,018 2,260,641 1,137,822 1,892,288

QUANTITY \$ VALUB
12,564,685 1,286,077
1,992,429 566,861
78,798,461 17,952,481
8,219,396 3,536,861
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4,756,881 1,74,810
3,390,138 9,065,648
18,864,416 2,642,533
18,904,732 4,863,247
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2,265,202 205,463

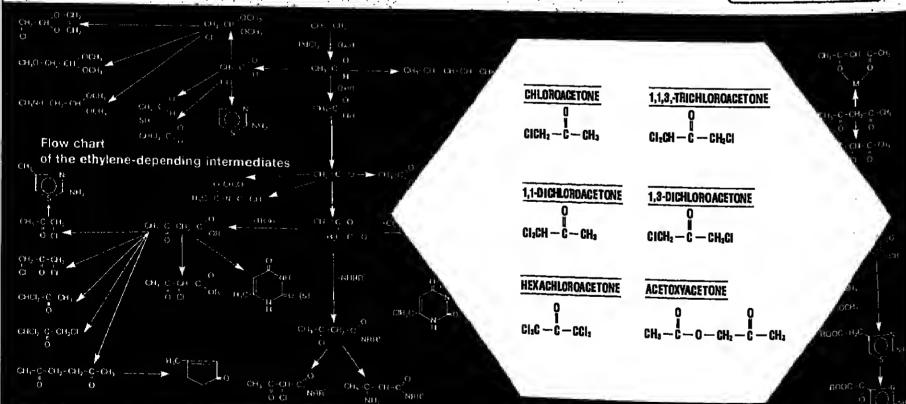
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signed areas this year include kelone. The price move, offective Dec. 18, will bring the now per-pound delivered prices, by zone, as follows: Nework, 23c.;

PHATIC ORGANIC EXPORTS: OCTOBER

OF CENSUS FIGURES IN POUNDS ON THE KEY ALIPHATICS

QUANTITY 1,533,403 1,747,211 81,827,163 5,048,972 28,887,826 5,102,903 4,232,025 1,053,396 4,318,858 16,222,051 6,806,726 704,368

poduction. Although II is n cu- and Northwest, 28%c. chylene glycol, increasing the

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881,428
872,806
801,952
4,853,310
3,866,808
6,780,754
8,268,208
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December 29, 1986

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41-1985 Grain Processing Corporation

### **ALIPHATICS**

tic zone-delivered pricea.

Market sources complain of tight supplies brought about by operating problems at a light a year and a half, which saw number of plonta in both the US and Europe. Also, atrong aupply relative to demand in recent years softened pricing. The price in the prices for lamblut, the seventy percent aquieous choline chiefled for the price and Exxon are said to be appears to linve levelled of the price are softened pricing. The price are available, "says in the price are available," says in the price are softened pricing. The price are softened prices are said to be a product is more available," says in the price are softened prices are said to be a price are softened prices are said to be a price are softened prices are said to be a product is more available." attempts to correct pricing in light of cm. Fight now, we are looking rently snug suppliea

### **Advanced Materials**

Continued Irom Page 5

while other firms will become more receptive to hybrid fabrica and three-dimensional woven fabrics in such shapea as I-beams and

"Advanced materials will be pervasive throughout the whole industry changing the way people do things,"Mr. Commins predicts.

At the same time, according to the report new production techniques will revolutionize the advanced composite industry.

High-performance, thermopisstic-resing systems, for example, promise to cut fabrication time and waste, while improving partto-part consistency and performance. The same goes for improved automated equip-nicht, such as filament winders and pultruders. New, low-cost raw materials, and advanced agents to bond libers and resins, will create stronger and more durable com-

The advanced composites group, sccording to the report, shows the following charac-

56 percent are privately-held. The remainder are subsidiaries or divisions of other

 Sales of these 50 US manufacturers accounted for 55 percent of the entire US market for advonced composites. These firms range in size of sales (based on 1985 figures) irom 2 million to \$232 million.

 Most iirms projected an average 23 percent Increose in saies for 1986 over 1985.

 Sales of the 50 US manufacturers were mostly to the aircrait and aerospace industry. Other industries include sutomotive electrical/electronic, mliitsry, marioe, medicai and recreational.

 International sales accounted for an average 9 percent of the total revenues of the 50 manufecturers. Thirteen firms had no international sales.

Over the past year at lesst eight com positea firms were absorbed by larger com-panies. Among the buyers were such big icague piaycra as E. I. du Pont de Nemours à Co., B.F. Goodrich Company, BASF Corpora tion and Amoco Corporation.

"As this market grows, it might well be survival of the fittest," Mr. Commins says.

The Southland Corporation

Fine Chemicala Operation

Great Meadowa, NJ 07838 1-800-526-1800/1-201-637-4101

Chemicala Division

# an attempt to keep posted prices in tine with elifective market prices; additionally, the company sayalt is seeking to establish realistic accompany sayalt is seeking to establish realistic accompany sayalt is seeking to establish realistic accompanies.

# tic zone-delivered pricea. This move la in contrast to a prics increase of 1c. per pound announced esciler this month by Celanese. Also, Exxon announced that effective Jan. 1 It would remove the loper pound competitive allowance that it had placed on methyl ethyl ketone. Market sources complain of tight smaller.

wall the morket is termed "normal" by proces, with no new applications worsing up in the immediate lature sie,"says one producer, "we appollems in meeting the demands of paners." For 1997, there is general

ingkes have been stable during the salmonths. Current list prices are than it per pound for the technical hisper pound for the pharmaceutishand\$1.18 to \$1.25 per pound for the ±gade. There may he slight varia-Aboding on the quantities ordered indurfree product of "good color" for delars per pound. According to one atteis 8 growing interest in posti-

smesays that there is "a craze back odyoducis," ami predicts a "re-bu th a'a'hskin care products MOPFOR WOOL GITE ASE

quality yearly consumption of Ecological pened between 10 and 15 million Press some sources put the figure

memption of lanolin abrivatives is slimated ot 2 to 3 million pounds Patheing of the derivatives is classify धेश्रेष्ठे pricing of ianulin.

positive prices of wood grease. James material, are quoted at around 50 to eground. Several sources mention Almola the prices for wool grease. equal prices may be veloff in the 45 lage buring the coming year. A year bulling, wool grease was priced at 28

h Import figures for wood grease Welofover 5 million pounds of wood Copyried Into the U.S. The figure for hallon and for 1984 it was 5 redillion A from this total, to dute, Amstradia million pounds of wholl greater little laim, down fram 3 million pounds hi Australia exported 2 million

INECHLORIDE - Synlex inc. will orcholine rhiterble, effective

hapiees will be us follows: 50 per-<sup>allne</sup> is 36c, per pannal, imik, in tan and hopper trucks. Bagged

### **PRICES TRENDLINES**

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

### **DRUGS INDEX**

The Drugs & Fine Chemicals indax ra-Itects the prices of 10 raprasentativa materials in this sector and the quantity of each produced in 1985.

	1905	
Doc 27	1905	211 16
	1906	
Dcc, 19,	1986	211.18
	1986	

fullum pounds, 43c, per jound for 5,000 pounds, and 14c per poind for 2,000 poinds. Less than 2,000 pounds cost 44c, per pound,

For both grades the company Indicates forb freight allowed on 2,000 pounds or more Less than 2,000 pounds, f.o.b. plant or warehouse. For shipments West of the continentul illylic 4c. per pound is adied.

Syntex is following the lead of Nutrius Inc and Chinoik Chemicals, the Canadian producer of the product, who announced similar price hikes earlier this month (CMR, 12/8/

Thidne eliforide is termed as "moving well" by industry sources. The market is recerving considerable support as result of the expansion in the politry industry.

### BOTANICALS

KALLAYA GUM -- linyers in this gum orc said to be waiting white citaris by the Indian government to establish itoor prices for this product are maler way. "The murket is very quiet" says one hayer of the crude product, with virtunity no recent offerings."

According to industry sources, NAFED, the National Agricultural Cooperative Markeling Frderation of Imlin, Ltd., alms to raiso present kurnyn gum prices by about 18 percent. At present, prices quoted to importers of the crude are at \$130 for 50 kilos for the himp pounds, 30c. iar 5,080 pounds, the number two varioty. Pricos for the fin-

# MG & FINE CHEMICAL EXPORTS: OCTOBER

MEAN OF CENSUS FIGURES ON THE KEY DRUGS.

QUANTITY	S VALUE	QUANTITY	\$ VALUE
48,180	2,308,818	5,641 88,790	747,895 8,006,974
69,469	2,584,027 703,831	7,374,186 148,243	1,219,834 2,868,021
1,898 476,300	2,827,434 702,117	1;236 274,006	1,458,411 .388,182 138,805
1,672,262	1,142,326	666,935 592	927,655 89,329
3,924	8,758,802	3,112	8,465,273 1,203,298
6,328 3,419	4,172,460	18,602 3,342 20,362	4,131,290 2,118,885
21,940	484,779	102,812	1,424,252
203,646 23,499	1,042,898 29,330	150,261 R 954	207,656 62,164
9,202 2,770 08.354	33,402 1,014,058	1,084	1,127,744
2,848	99,462 484,181	433	149,640
	QUANTITY  48,180 88,489 8,268,200 13,804 1,872,282 2,179 3,924 8,328 3,419 113,208 21,940	46,180 2,308,818 68,250 8,784,245 69,469 2,584,027 5,268,200 703,831 1,898 2,827,434 476,300 702,117 13,804 56,688 1,672,262 1,142,326 2,179 323,549 3,924 8,758,802 6,328 1,945,653 3,419 4,772,460 113,208 2,766,691 21,940 484,779 203,646 1,042,898 32,498 29,530	QUANTITY \$ VALUE QUANTITY  46,180 2,308,818 5,541  88,250 8,784,246 88,790  89,469 2,884,027 7,374,186  8,288,200 703,831 148,243  1,898 2,827,434 1,236  476,300 702,117 274,006  13,804 58,698 38,300  1,872,282 1,142,328 565,935  2,179 323,549 592  3,924 8,758,802 3,112  8,328 1,948,583 3,412  133,208 2,768,591 22,382  21,940 484,779 102,812  203,648 1,042,888 194,884  223,648 1,042,888 194,884  223,648 1,042,888 194,884

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pagember 29, 985 ... A CHEMICAL MARKE, UNIT PLET BUTCH

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## DRUGS & FINE CHEMS

ished powdered gum range between \$2.50 and \$1.65 per pound, depending on quality.

According to one source, meetings are being held for the purpose of establishing of fective controls at the auctions where the raw gum is offered by individual collectors. As a result, the situation is described as "very

confusing "with no offerings being made.
Burasu of Census figures reflect the market situation, showing a decline in the amount of gum thal has come in to the US this year. During the first ten months of 1966 only 2,394,903 pounds came here, in contrast to 3,354,699 for the same Ilme in 1965.

LOCUST BEAN GUM - Prices for this gum have levelled off during the last few months. They have dropped from their previ-ous highs in 1965, when locust bean gum demsnded between \$6.00 and \$6.75 per pound, more than double the price of \$2.50 in 1984, but are still above nurmal levels.

Presently, prices for locusi bean gum an quality. Industry sources expect a slight drop n price of about 5 percent for the coming year. At present there are isolated quotes for most home and bean gum at \$4.50 and even below \$4. But a some it was caocelled for most home and one source explains, this might be for a president it caused cancer in laboratory antiess, high-quality gum is required by most in 1975, the agency reached a settlement in 1975, the agency reached a settlement is a large, the agency reached a settlement in 1975, the agency reached a settlement is a large, and the agency reached a settlement is a large, and the agency reached a settlement is a large, and the agency reached a settlement is a large, and the agency reached a settlement is a large, and the agency reached a settlement is a large, and the agency reached a settlement is a large, and the agency reached a settlement is a large, and the agency reached a large and

The new crup is in and is lermed good by one source. End users are said to be preparing in place their orders for the prime season

1986. Through Oclober 4,247,696 pounds came into the US, as compared to \$,645,677 pounds through October in 1965.

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end users.

Supply is described as "readily available" seement under which the remaining uses hy one source, adding that "there is not much the chemical, except for termite control, buying going on right now." This does buying going on right now." This drop in de se phased out over a three-year period.
mand is blamed on the combination of higher prices for the product and a weakened dollar. I termite control by way of underground.

NT was formerly used throughout the US mirol losects on crops and around the coming up in March through Jooe, when he is all was banned in 1672 becouse of ita cream pruducers are getting ready for the sond chain and because of its adverse summer. alsoo the environment, particularly the fucilve effects on fish and fish-cating

> whin and dieldrin are also tosecticides were widely used through the agriculindustry before they were banned by in 1975 on the basis of their risk to We health and the environment. Both packs are persistent in the environment feese cancer in animals, according to the

lethylene Chloride

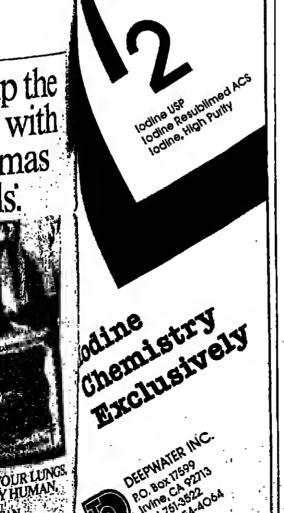
black from Page 7

wir an emergency standard, "We have orderioo by some employers to substi-tionicals and reduce exposures, but hall never be full protection until we unandard that reduces exposures to the

denying the petition, OSHA said that smal" rulemaking would begin on where chloride. The agency noted that than one million workers are exposed સ્ક્રેણાંd chemicat, widely used as a sol-ાંજ industriat processes, food prepara-

mdagiculture Masays there is "sufficient evidence" toethylene chloride can cause cancer in olmal species, but it maintains that huandies are inconclusive on whether exthe the chemical is barinful.

desisting OSHA exposure limit is 500 melhylene chloride per mitlion parts level the union feels is too high. UAW



says it should be reduced to the towest feasi-ble level.

Last May, the American Conference of Government Industrial Hyglenists changed Its recummended threshold limit from 100

**'Bendectin' Award** Continued from Page 5

and In the other the jury was unable to reach

In one case in 1963 a jury found in favor of the plaintiff. However, the trial judge overruled the jury'a verdiel on the basis the evidence presented was not sufficient to prove 'Bendectin' wos the cause of the child'a birth defects. In 1966, a court of appeals overturned the trial judge's ruling and restored the original jury verdict. Merrell Dow has filed a petition for a rehearing of the case by the Court of Appeals which is currently pend-

Two court declaions have been rendared in casea outside the United States. Both were awarded in favor of Merrell Dow's West Germany subsidiary to January, 1666.

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CHEMICAL MARKETING REPORTER

# **Chemical Finance**

Crompton & Knowles Corporation less sold off most of its Kem cleaning, maining and water-trealment chemical operations in two separate transactions. As a reside divestment and negotiations to sell the remidning portion of the Kem business is company says it will lake a charge of \$7.7 million against 1986 carnings.

represents the expected charge for the disposition of all the Kem operations.

Kem accounted for about \$27 million or 14 percent of the company's \$186 million as In the first nine months of this year. Although the foreign porlion of the business half period of consolidation in some of its server suggests thay may be in a few years.

One producer that laentering the Canadian market and will be promoting ferric chloride.

Aya.

Vincent A. Calarco, chairman, president and chief executive officer of the conjugation. said in making the announcement that despite the \$7.7 million one-lime charge at expect to report 1988 as a profitable year" based on the performance of contact

According to Mr. Chiarco, the divestment was made because "Kem didn't fir corporate strategy of operoting specialty husinesses which permit long-termities lion of products and services to the customer."

For the latest nine months, C&K reported record earnings of \$8.4 million, or \$1350 share, based on sales of \$168 million. For the same period of 1985, the companying were \$174 million, with earnings of \$5.3 million, or \$1.52 per share,

### Phelps Dodge Completes Acquisition

Phelps Dodge Corporation has completed its acquisition of Columbian Chemical Company for approximalely \$250 million. Columbian Chemicals, headquartered is Atlanta, Ga., operates five corbon black plants and two iron oxide plants in the US and through aubsidiaries, aix carbon black plants in the UK, Canada, Germany, italy and it Philippines. For the nine-month period ending September 30, 1988, the companied Income was \$19.8 million, on sales of \$230 million.

For Phelps Dodge, which lays claim to being the nation's largest copper produce, with earnings of \$50.8 million and sales of \$839.7 million during the first ninemonths of % & acquialtion reflects its announced intent to diversify into one or more additional base

The purchase price was made up of \$60 million of Phelics Dodge Internally general funds, \$180 million of bank debl financing arranged by Morgan Guaranty Trust Compan and about \$10 million of assumed debt, not of cash on hand, the company says.

Columbian Chemicals will continue to be operated by its current management, health by Alan Burkart, president and chief operating officer. Ludislaus von Holfmann, chie man of the board, and Kurt Eckrich, a director of Columbian Chemicals, have resigned their positiona, but will remain with the company as consultants, Phelps Dodge says.

### Sterling Drug Acquires Three

Two European over-the-counter pharmaceutical companies with combined sales close to \$30 million have been acquired by Sterling Drug Inc. and, in a separate transaction, Sterling has ocquired Woodroof Laboratories, Inc., a Santa Ana, Calif. bast producer and marketer of a patented synthetic wound-care product.

John M. Pletruski, Sterling chalrman and chief executive officer, says the Empysi acquialliona — Laboroloriea Valda, a family-owned cumpany in Paris, with manifette ing facilities in France and Italy, and Laboraloire do Docteur Furt, based in Borden "are important alepa in Sterling's stated goul to strengthen the company's present these two key morketa."

According to Sterling, Valda lozenges are sold in France and Italy and have sing axport sales and the company also mokes and markuts medicated gums. Furt protest and markels products in the loxalive enlegary and its product line also include the products and diet aids.

Woodroof Laboratorles makea and markets "Blobranc" blosynthetic bura wo dressing, which eliminates the need for painful dressing changes during the said process since il parmits viewing uf the woond and penelration of topical antibactalis.

The prodoct will be marketed by Winthrop-Breon Laboratories, Sterling's densite prescription medicines and the process was asset to be prescription medicines. prescription medicines marketing illvision. Torms of the cash purchasa were as

### Koppers Purchases Operation of ICI Americas

Koppers Company hos purchased life "Alluc" specialty thermoset resins business iCi Americos inc. for an undisclosed price, corresion ond flame-relardant rasis, to estera, binders, lonera ond iTP mulding resins. The anio includes commercial knowledge

customer llats, irademarka, manufacturing know-how and patents.

Dr. Alonzo Wm. Lawrence, sector vice-president, notes that the resina will experience. Koppers' existing "Dion" value-added resins businesa.

Expansion of the specialty polyester resin line is part of a Koppers strategy to fore operations on its strongest businesses — chemicals and construction materials and services. During 1888 the construction of the special services are constructed businesses to services. services. During 1886, the compony completed sales of most of the ten businesses to company said it would divest and formed o \$200 joint venture in the consideration materiala and services aector.

### Chemical Financial Briefs

Amoco Corporation has approved a 1867 capital and exploration budget with billion, essentially unchanged from \$3.28 billion this year. The company knother lits '88 apending target to about \$3.8 billion from the original \$5 billion die with the group in oil and gas prices. drop in oil and gas prices.

Unliever United States, Inc., has received early termination of the walling pend under the Hart-Scott-Rodino act in connection with its merger agreement with the brough-Ponds, Inc. and expects to complete the marger this Wednesday (December 1). Henley Group Incorporated, La Jolia, Calif., has executed a previously answer senior revolving credit agreement with 21 banks providing up to \$3 billion for interest in or acquisitions of businesses or companies, although no particular inventors.

acquisition has been identified.

Squibb Corporation, Princeton, N.J., has declered a special dividend of the said common stock of Westmark International Incorporated the holding common stock of Westmark International Incorporated the holding common stock held by shareholders on December 31.

Cooper Vision, Inc. has reached an egreement in principle to sell its opinion pharmaceutical products business to Johnson & Johnson for approximately the in cash before the end of the year.

# **HEAVY & AG CHEMICALS**

# Ferric Chloride Producers The charge will lake account of an neconnelated foreign currency translation when of \$7.1 million related to Kem's international operations. The remaining ways | Face a Mostly Soft Market

werall, producers face significant overcapacity.

Domestic production this year is projected

bregister 188,000 tons, virtually unchanged om last year, while loduslry capacity totals Pricing in the industry is soft, with list

rices quoted al \$175 per too on the East wast and \$230 per ton in the West and Mid-ref. Sources aay Midwest prices are being

Seventy-five percent of domestic oot put is sed as a flocculant in the treatment of wage. US demand for the aewage grade milerial is seen to be generally flat, with eriler strength being lost to the gains of physicarrolytes and water soluble polymera at this is not the situation in the West, especially in Colling and the situation in the West, especially could be seen as a simple continuous situation. dally in California.

With its ability to bind aulfur in an insoluthe complex, ferric chloride la extremely will to California's aewage treatment fadities, many of which are altuated in popohas areas and from which the emission of hdrogen sulfide is a serious problem.

Moreover, aome of these facilities hurn ser sludge in digestera, and the addition of bric chioride to the aiudge belps them meet alliornia's stringent environmental reguiatons by keeplog the release of suifor dloxtde

With Western demand for ferric chloride tiong — Los Angeles, for example, is seek-kbidsfor an additional 17,000 tons per year producers there remain boiltah. One of the ingest among them, Imperial West, doubled opacity early in 1988.

### MARKET TO DECLINE

The Northeastern and Midwestern marbis for sewage grade ferric, however, are specied to decilne at a rate of 3 perceot per par. Producera in these regions that are opsaling at foll capacity appear to be osing sme of their outpot captively or are supply-ty steel producers KA Steel Chemicals has bill a new plant in Dravosburg, Pa., on the Morety of, and in order to aupply, USX, thick is in the midst of a atrike. Producers he make primarily aewage grade material resaid to be operation at algolficantly less fan full capacity.

Migaling the siump in US sewage grade is waits. The taled in potable water tratmant, represent-18 percent of its total use. Damand for aric chlorida io water treatment plants is mechanism of water creatment plants in medical to grow at 5 percent per year inogh the rest of the decade.

The plants ose ferric to clarify and floccu-

Maler, but it has gained additional favor bisability to maintain proper pH balanca. Moreover, ferric chloride may gain a oew Wantage over its main compelitor in water haiment airmioum auifate, if the EPA
buld issue guidelinas for residual alobuld issue guidelinas for presently

market and will be promoting ferric chloride for water as well as sewage treatment is C-I-L, which is building a facility in East Montreal with a capacity of 40,000 metric tons. The plant is acheduled to be completed in June of 1987 and it is being built primarily to supply the needs of Montreal and covirons, but a capacity as a specific property of the series of the capacity of the series of the capacity of the series of bot a spokesman says lhe company hopea to market ferric chloride throughout Quebec

### **PRICES TRENDLINES**

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

## **HEAVY & AG INDEX**

Tha Heavy & Ag Chamicals Indax reflects the prices of 18 representetive materials in this sector end the quantity of aach produced in 1985.

	Chemical Prices Start on Page	
Dac.	27, 1965	
Nov.	26, 1966	113.69
Dec.	19, 1966	113.69
Dec.	26, 1966	113.69

and penetrate the Conadian polp and paper mili market. Any possibility of entering US markets, were it to come, would be years away, the company saya.

Ao lodustry acurce points oot that, "ten years ago, ferric chloride aold itself, but it has to be marketad aggressively in the present-day markal."

### **BASES & SALTS**

CAUSTIC SODA - Holtrachem, Inc., a major diatribulor of causlic aoda, has announced an Increase in the price of its caustic soda solution, effective immediately and aa contracts permit, on a case-by-case basis.

The company notes that the unfavorable balance of caustic soda and chlorine, which resulted in the only mixed auccesa of the industry's October 1 increase, no longer pre-

The company adds that chloralkali operating rates are considerably higher than a year ago, due to rationalization, but that there is no likelihood of a supply shortage in 1987. Holtrachem does expect a bigher prica for the ECU in 1987, bol does not know by how much or whether it will tend to affect chlorine or ca oatle soda.

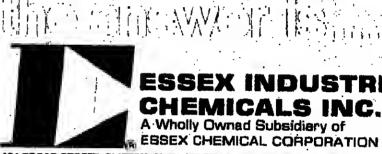
SODIUM CHLORIDE - International Salt Company has announced price increases on its evaporated and rock salt products, effective with ordera and shipments on and after January 28, 1987.

According to the company, the incresses

# NORGANIC CHEMICAL OUTPUT: SEPTEMBER

and the same of th	SEPT. '86	AUG.'86	SEPT. '88
uninum aulitats, commercial Sium carbids, commercial		123,521	98,001
clum carbide, commercial	18,202	16,604	18,376
with phosphate, dibasic anhyd	49,635	44,045	41,713
usic sode, dry	18,841	18.071	23,296
		932,816	568,164
Offine, Den	877,271	685,880	840,891
Offine, liquid	067,271	850,559	638,368
verc sode, liquid orine, gee, orine, liquid frochloric ecid follueric acid	893,178	238,198	240,366
rogen peroxide	233,571		19,468
dogen peroxide dogen peroxide dephorus, elemental dephorus oxyahloride dephorus pertaculide dephorus trichloride	15,443	21,699	12,961
Appenie alemana de la company	13,504	13,308	
Spheric and mental	28,244	28,598	28,228
onhania oxyenioride	2,741	2,455	1,889
denhanis pentasulfide	8,471	5,262	5,514
Machine Irichloride	9.120	9,311	6,215
Maria nydroxide, liquid	-		16,982
pyrophosphale, anhyd.	1.848	1,589	. 1,634
disciple	28,498	26,903	24,495
m) metal	4.000	4.867	5,238
ospherus pentesuifide ospherus irichloride issaum hydroxide, liquid useium pyrophosphate, znhyd dium chlorate dium metal dium suifate, anhyd	87 474	60.727	88,866

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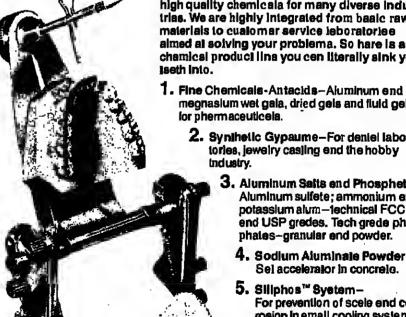
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megnasium wet gala, dried gels and fluid gels

2. Symhetic Gypaume-For deniel laboretories, jewelry casiling end the hobby

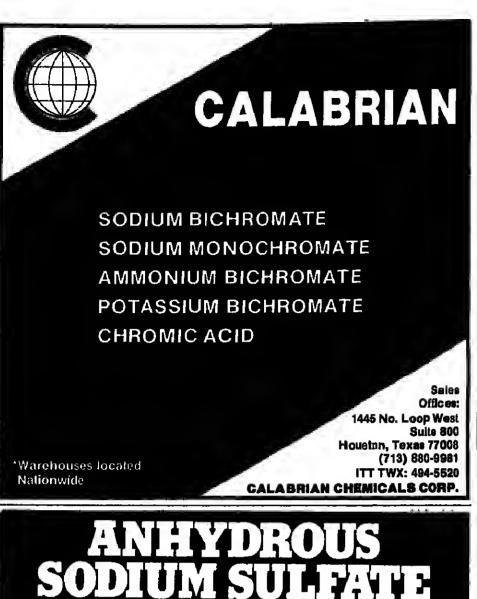
> 3. Aluminum Salts end Phosphetes-Aluminum sulfete; ammonium end potassium alum-technical FCC end USP gredes. Tech grede phosphates-granular end powder.

4. Sodium Aluminale Powder-Sel accelerator in concrete.

> . Siliphos™ Syetem-For prevention of scele end corrosion in email cooling systems. process water and poleble water for homes, hotels, etc.

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Petrochemical Division

**BASF** 

### **HEAVY CHEMICALS**

average about 3 percent and will meon an advance of approximately I2c. per 60 pound bag and \$2 per bulk ton. In addition, diacounts rom published f.o. b. plant prices will be caneiled, the company says.

Continuing pressures on margins due to higher costs for labor, packaging materials and additives make the increase necessary, according to international Salt.

### INDUSTRIAL ACIDS

SULFURIC ACID - Stauffer Chemical Company is raising its off-schedule pricing for sulfuric acid shipped from its Portland, Ore., Tacoma, Wash, and Dominguez and Martinez, Calif., facilities by \$5.35 per ton, 100 percent basis, not to exceed current schedule pricing. the increase is effective inmediately, or as allowed by contract.

On December 1, Stauffer raised the price of its Hammond, Ind., auifuric by the same amount, adding their name to the growing number of producers that bave recently raised prices for both the recovered and cicmental product.

Their latest hike, however, falls in line with General Chemical's recent increase. Whether this represents the atart of a Farwestern trend for 1987, and whether auch a trend would affect the price of recovered as well as elemental sulfurle, remains to be

### **METALS AND MINERALS**

COBALT - Zalre and Zambia have reportedly agreed to establish a uniform price for cobalt at \$7.00 per pound. The November 20 agreement was intended to atabilize the cobalt market and the price has held to datc, hough its future is open to question.

One source feels that demand for cobait is strong enough to keep its price at or near \$7.00, but he adds that demand will probably have to rise to sustain the price through all of 1987. According to the Bureau of Mines, dcmsnd was 19 percent higher in September than in August, but cobalt's price at the time was \$6.00-\$6.40.

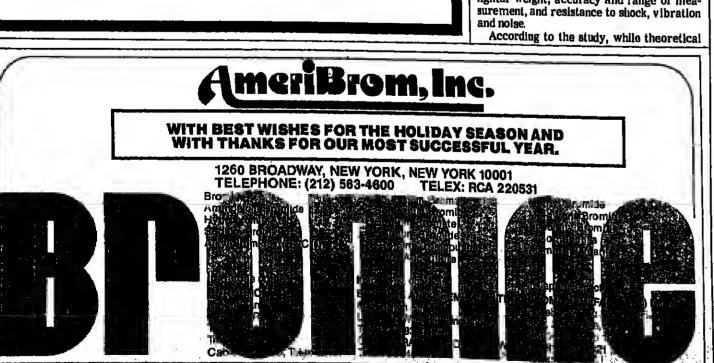
The auccess of the \$7.00 figure, however, will depend on cooperation between Zambia and Zaire as well as on demand. In the Spring of 1984, the two countries, whose combined production of cobalt accounts for 60 percent of the world's total, established a price of \$11.70; but the price collapsed when Zambin reportedly undercut its partner, initiating n price war that drove the price of cobait to its

If Zambia and Zaire succeed in honoring their latest agreement, a factor in favor of the \$7.00 figure is its reasonable level. According to industry sources, \$7.00 ia higher enough to encourage production, asamning demand remains healthy, but it is not so high that a repetition of price wars is as-

### Fiber Optic Sensors

Continued from Page 7

elimination of spark hazard, smaller size and lightar weight, accuracy and range of mea-



December 29, 1988

resenrel in the US lins addressed virtually potential fiber optic sensor applications has estublished a theoretical basis for price cai applications in many areas, most cana practical US applications are still force on proximity, liquid level, temperature ad

"In contrast," saya IRD project manage Carole Keogh, "fiber optic sensor develo-ment in the UK and Canada is someonal more diverse. in what appears to be the one sequence of market dynamics, those contries have made considerable progressing commercial application of flow and present sensors and the development of remote m.

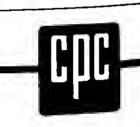
Recause of their reliance on offshore of markets as opposed to industrial maries more emphasis has been put on the develoment of pressure and flow systems because they are vital in offshore operations and in resolution of difficulties associated mi fiber ontics at extreme distances.

On the other hand, demand is strong hike US for proximity sensors for factory aviewtion, for temperature and level sensor in military/aerospace markets, and for meelectric sensors in medical markets.

As for Japan, the current emphasis in the development of new fiber optic sensor for household and other consumer appliestions, as well as ongoing development of industrial fiber optic sensors to replace onventional types, IRD says

Approximately 100 US manufacturers are Involved in the fiber optic sensor marks, according to the IRD report. Among themsket leaders are Cardiovascular Devices, Im., EOTec Corporation, Luxtron Corporation, Honeywell's Micro Switch Division and Electro Fiberoptics Corporation.

Mony applications of the new fiber optic sensors invoive displacing older types of killsors, but with few exceptions the traditional 'low-technology' sensor manufactures have run into technological barriers to east when they have looked at the liber opticate sor business. "The new sensor busines is dominated by small high-tech companies, some of them started only a year or two and. comments IRD's Keogh. The fragments "niche" character of the maket has led to some "nice profit margins," according to the company'a study, which does not predictely sort of near-term shakeout. "But all thecorditions are ripe for a wave of mergen and acquisitions," points out Ms. Keogh.



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# **COATINGS & PLASTICS**

# **Du Pont Scores**

advancement in fiber technology since oylor." To dete, the company's investment in this product has totalled over

The material, five times sironger than steel, is used mostly in composite structures n aerospace and industrial applications requiring high strength. ft is also used in rope and cable manufature, radial passenger tire and protective vests and garment applications, as well as a replacement for a sbestos in gaskets and brake linings.

In 1963, the US market for "Keviar" moved from 15 million pounds to 17 million pounds. To meet this new demand, Du Pont increased production capacity at its Richmond Virginia plant from 15 million to 49 million pounds, at a cost of \$200 million. This capacity is expected to meet US domestic md export markets through the end of the

With presence established in both US and European markets, both producers are now boking to the Japanese market.

In 1963, Du Pont started a joint venture with Toray Industries Inc. of Japan for the ale of "Kevlar" in Japan. The Du Pont-Toray Company currently imports polymer dips from the US, processing them for sale Japan. By 1988, the company plans to have production plant on line in Japan, with capacity "in excess of 6.6 million pounds," alier expenditures totalling \$100 million.

Akzo has also been active in the growing Japanese market. Enka and Sumitomo hemical Company have recently agreed to form a joint venture, Nippon Aramid Yugen Kaisha, to market Enka's "Twaron" fibers in

JAPANESE MARKET STRONG

The venture predicts sales totalling 200 metric tons in Japan oext year, and aees the market expanding tenfold by 1991. By that fime, it plans to build a 2000 metric ton proaction plant to process polymer, which it ill continue to import from Akzo.

Du Poni and Akzo are not the only producstrengthening their presence in Japan. lejin Ltd. bas been marketing an aramid ber, "HM-50," almilar to "Kevlar" but used on a different process, for the past 4 Pears. The company started a 1.1 million pound per year production plant in Japan last

Teljin also markets, "Teljiconex," a poly-mer ilne similar to Du Pont's "Nomex." Together with Technora Ltd. of Japan, Teljin has announced plans to atart marketing Technora" a new line of aramld fibers, by he summer of 1967.

### LASTICS MATERIALS

ACRYLIC POLYMERS - Rohm and las Company will be raising prices for many of its acrylic acid based "Acrysol" was-soluble polymers on January 1, the firm

line, wiil raise prices for selected grades of the material from one cent per pound to ten cents per pound, depending on product. "Acrysol" polymera are used primarily in industrial water treatment, oli production,

mining and detergent applications. PHENOLIC RESINS - Schenectady chemicals will be raising prices for its lines of phenol and alkylphenol-based resins on

### PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

### **COATINGS INDEX**

The Coetings & Plastics index reflects the prices of 13 representative materiale In this sector end the quantity of each

	Cha	miceli	Pricea Start on Page 2	4
Dec.	27,	1985		308.4
Dec.	18,	1986		306.4
			•••••••	
P. Ca	444	- 144 14		

January 15, the company announced last

To date, BTL Specialty Resins and Borden Chemical Company have announced phenolic resin price for January, in response to higher

### **MISCELLANEOUS**

ACTIVATED CARBON - Despite price increases this year, producers describe market pricing as "unsettied." Discounts are "ali over the place" saya one producer, giving ranges of 5 percent to 20 percent, off list

Overcapacity and a surge of cheaper imported substitutes, particularly coconut carbon from the Philippines, have been keeping prices low, producers say.

The market for activated carbon is de-

scribed as mature. US demand is currently estimated to run between 190 million and 200 million pounds per year; flat to 1.5 percent annual growth is expected for the future.

Industry capacity, which had been around 400 million pounds per year for several years, was pruned considerably when Witco Corporation left the business. Westvaco Inc., another producer is said to have reduced on another producer is said to have reduced capacity, putting some production lines on standby. Subsequent industry restructuring isa said to have reduced the figure to betwean 300 million and 330 million pounds. Even with this improvement, producers feel that The price increase, the first for the product overcapacity will continue to dominate the market for the near future.

## **COATING & PIGMENT EXPORTS: OCTOBER**

BUREAU OF CENSUS FIGURES ON THE KEY PAINT MATERIALS.

	OCTOR	OCTOBER '66		SEPTEMBER '66	
	QUANTITY	SVALUE	QUANTITY	\$ VALUE	
Antimony Oxide	218,152	342,059			
Cathan bleefe to street and the	6,690,070	4,186,639	9,166,668	5,942,066	
Carbon bleck, including thermal	469,574	746,443	622,526	666,036	
Chronium pigments (1)	400,014	I TEPTO	·,		
Colors, lakes end toners (Cyclic);	404 607	696,556	258,610	964,602	
Concentrated dispersions	161,037		109,030	264,867	
TOTAL TITLE	125,293	613,044	50,716	622,084	
Tree to the tree to the tree tree tree tree tree tree tree	92,664	692,880	4,184	66,416	
INC.	36,443	526,208		1.956,630	
	465,243	1,846,214	486,091	2,797,161	
	1,048,006	4,208,202	777,838	621,114	
	315,236	376,993	761,486		
	1,986,422	1,662,924	2,241,663	1,663,266	
ion oxidee inst, ayn. ibs.	6,601,141	3,242,036 .	4,807,857	2,766,731	
LSad oxides The	60,606	12,000	12,201	3,806	
	1,294,670	424,692	767,963	247,361	
Other phinelates	89,610,816	7,455,578	61,722,201	14,753,766	
Thenlym dicylde	16,776,004	10,697,146	20,435,636	14,753,766	
Tilenium dicxide be. Zincoxides be. Zincoxides be.	240,618	190,498		48,662	
Zirconium avida	226,310	310,369	56 626	266,058	
AVIOLO AVIOLO IL	KEGIO IU		Bolono	· .	
(1) inhibuta a set of					
Crampus mixtures			51,5		

# Dane's Salt

### DANE'S SALT OF

D(ALPHA) PHENYLGLYCINEPOTASSIUM ETHYL

Chemical Formula: C<sub>14</sub>H<sub>16</sub>O<sub>4</sub>NK Molecular Weight: 301.3

**Structural Formula:** 

**Description:** White solid powder

Melting Point: Above 220°C (with decomposition)

Assay (Purity): 98%-101% as C<sub>14</sub>H<sub>16</sub> O<sub>4</sub>NK

Water Content: (by K.F. Method)

Max. 0.5% w/w

20:-75° to -85° (C=2, 1NHCL)

20:+270° to+280° (C=0.5, Absolute Ethanol)

Suggested uses: As an intermediate in the synthesis of Semi-synthetic Penicillin-like Ampicillin.

Packing: 50 Kgs. in Fibre Drum with sealed plastic bags

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December 29,1989 CHEMICAL MARKETING REPORTER





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Mon. A domestic manufacturer emwhe dollar's effect on overseas proa lapurely the dollar change against gracies. One domestic distributor of inid says "low priced imports from hyedepressed the market, keeping all

der ladication of the current competidimete is the total Import figure for the musks. For 1985, a total of 819,977 of were imported; through October, 1,130,373 pounds have been brought phonory. That such large quantities, est \$0.396 pounds ahead, have reached Britists to the drive to sell material On source says the quantities are synosk xylol, the largest volume and

It total synthetic musks imported pat October, China accounts for 50 perthe Netherlands 17 percent, Great phand Switzerland for 15 percent and 12 surespectively. The onaterial from the

hmusk kelone.
MUSK XYLOL CUIEAPER ka ryld is less expensive than musk abecause its "cheaper feedstock costs induction methods keep it lower," says smachemicals broker. The ketone, as a compounded in more rustly perbe chemist with a domestic supplier belle musks says that, though the two weobylously different, "compounders elekelone in more expensive and the bless expensive formulations more out bilthanneed." He odds that whether one pliatively more destreable than the

belroversy since being "flagged as a senaccording to an around chemients Ambrette has not increased in price time of the competition the Chineso im-Mace from a US producer. A spokesman the prodocer says that in the last few ambrette has been restricted for skin sici markets, like perfumes and after-

Emaintains that, despite nn timport drop 150 tons in 1081 to less than 20 tons in material "Volume use of the embrette more."

CHANGES/UP

Alispice, Honduron, 1c. pet lb.
Casstn, Kountin & C. lutures, 1-2c. per lb.
Codorwood all, Chinese, 30c. pet kito
Cinnamon, H-2, 5c. per lb.
Cinnamon loci all, Colanese, 5c. per lb.
Citronella all, Caylanese, 10-20c. per lb.
Eucalyptus Citronelle, Chinese, 35c. pet kito
Leman all, Israell, 25c. per kito
Lemangrass all, Gualemalen, 10c. per lb.
Ocolee Cymberum all, 10-50c. pet kito
Popparmini all, Chinese 80%, 30c. per kito
Spoarmini all, Chinese 80%, 30c. per kito
Tarregon, domostic, 50c.pet lb.

### CHANGES/DOWN

Basilleaves, French lency, 3-4c. per ib. Caraway sood, Polish, 1c. per ib. Clavelent oil, Indonesian 80%, 5-20c. per kilo Cariander sood, Rumanian, 1c. per ib. Carlander Sood, Ruthisland, I.C. per IS.
Cumin Seed, 1-3c. per IB.
Oill Sood, Indian, 2c. per Ib.
Firnoadle oil, Chine So, 35°s, 50c. per kilo
Patchauli oil, Indonosien, 30c. per kilo
Vouveri oil, Indonesien, 50c. per kilo

### PERFUMES INDEX

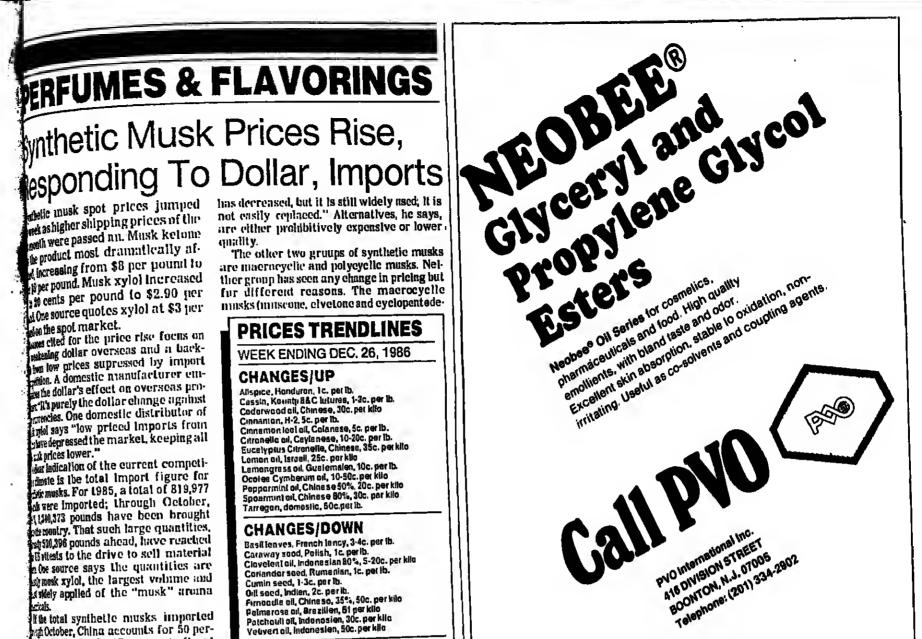
The Perlumes & Flavorings index rellocts the prices of 11 representative materials in this sector end the quantity of each supplied in 1985.

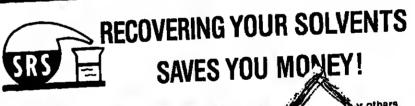
	Chemical Prices Start on Page 24
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٥٧.	28, 198871.00
OC.	71.00
	19, 1986 71.00
ac.	26, 1986 71.00
	-1.00

candide are examples) "are the most expensive," says an orome chemicals importer. "Nu one can afford them." Due to their high and varied price range, from \$25 to \$1,500 le bat of the three nitro masks is mask to be in place for a long time before sellers

The polycyclic musks are the newest market entries. Devoloped in the 1950's, products such as ethyleno brassylate, gelexilide end populide have made substential golus in the aruma chemicals merket.

A ninrkot anulyst predicts that the ketone. and xylol price increases cannot reach much more than to percent of November epot levcls and emphasizes that 20 to 25 percent in erceses are inconceivable. "Competition is Ambrette is still o necessary and sought simply too tight. Prices cannot go up eny





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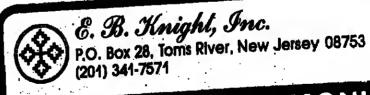
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December 29, 1986 CHEMICAL MARKETING REPORTER



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	terantic Ib.	155,041 93,229	61,343	1,811,460	263,030	

# CHEMICAL PRICES

**WEEK ENDING DECEMBER 26, 1986** 

This chemical prices section contains spot quotations and/or list prices of suppliers of chemicals and related materials on a New York or other indicated baals. The llatinga ara based on prica information obtained from suppliars. Note that posted prices do not necessarily represent levels at which transactions actually may have occurred. Thay do not represent bid and asked prices, no ranga of pricas over the weak. Price ranges may represent quotations different auppliers as well as differencee in quantity, quality and location. mattars under this heading are fully covared by copyright.

An index of weekly chemical market reports is on the back cover.

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<b>A</b>			Alumina, activated, gran., 100-lb. t	
<b>A</b>			40.000-10. min. c.l., works	Lion 821 00
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Acsiylane black, imp., 50% com-		0.04	CAMPITING STRATES PAGE 61	Ib • • •
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ANTICHUNICO CONKRITO IN LUCARE IN	.65	7.00	ASTM/American Soci-	ryst./crystalline
THE PARTY IN CONTROL OF THE PARTY IN THE PAR	5.40	8.90	Matsrials	.a./cases
Almond or, anti., bitter (see Benzaldehyo Almond oil, net. bitter, NF 1.1.p.a.	16.)			na./carlona
ODTS	3.50	3.80	b/beta	yla./cylinders
5W86[	1.24	1.50	Balleyer	la dela mis-
Aloe, Cape, cs. ib. powd , ca. ib.	2.00	-	bbls./barrels	i-/destro ibi./double
Curação, Kos	2.25 2.80	2.75	5-31-Linera-Britillill	angl./denatured
DOWO KAS Bo	2.60 3.00	: I	bgs./bags bis./bales	P&L-Clai./deature.
APOID, NIC. CITIS	8.00	5.70	bote./bottles	TIVELY CHATILLAN
Alum, ammonium, tech. gren. bge., c.t.,1.f., worke t00ib.			p-b-/poiling point	/destro-laevo  et./distilled
CUU DOWOL. MOST state, washed notice	35.00 55.00	-	o.p.i./bone phosphate	afr./distributor
Alum, potassium, tech, gran, bas, e i	OD.00	1	h / /holling rene	IVd./de   Vered
LL. WORKS 100 lbg	35.00	- 1	I hve fleaves	ma./drume om./domeatic
FCC powd. fiber dma., works . 100 lbs.	55.00	- 3	L	

5 UI	Ammoniacal Inquor (see Ammonia, aque	200.00 (0US).	315 00	
ited	Arrimonisc sai, galvenizing arada, bos.			
ota	c I., f.o.b. works 100bs Ammoniac asi. white (see Ammonium ci	28.80	-	
ons	Artificatum cidorete, gran., dms., c.t.	1010000	I#. <i>j</i> .	
or a	works	.00	-	
-	Ammonium bicerbonate, 300-lb. fib.	o. nignar.		
of	ams., c.l., works 100 hs	25.00	_	
All	1 DQ8., C.I	25.00	-	
	Ammonium bichromate, photo-litho grado, gran. 100-lb, dms., I.I.I.			
	works in	2.00	_	
_	Anishomum piriuorida, bda., 1.1			
- 1	Ammonium bromide, dom. NF, gran.	.70	-	
	UITS., C.I., L.I., I O h works to	1.31	_	
	Ammonium chlorida, white, tech.,			ı
	fine gran., bgs., c.l., works100los.	10.00		- 1
-	use, gren., dms	18.00 .40	.53	١
-	Chinician Citals, dipasic 250 in		.00	- 1
-	dms. f.o.b. worksb. Ammonium dimolybdate, approx.	2.79	-	-1
-	1 03%, 24,000 lbs or more to	5.48	_	- 1
-	Ammonium fluoborale, tech., dms.			I
_	c.t., t.l., works, frt. equald ib. Ammonium heptamolybdata, crysl.,	1.79	-	ŀ
_	[ QIII5., 24.000 IDS. Loh			J
	WORKS III	5.57	_	1
-	Ammonium leuryi aulfate, tanke, I.o.b. worka	-		١
-	t Ottilityilliii liddin millonete bulk	.29	.32	Ì
	f.o.b. Floquiam, Ore ton Ammonium nitrate, dom., fertilizer	72.00	_	ı
-	grade, 33.5% N. bulk, S.E.			1
-	UNO IOD	130.00	135.00	ı
_	Ammonium osalete, tech., fina. gran. 300-lb. dms., Lt., f.o.b.			1
_	WORKS	1.42	1.88	ı
3.50	TALLINGING PERILADOVATA GRAD DAS		1.00	1
3.30	c.l., works	.75	-	ı
	I Ser ID, INCINER.			1
-	Ammonium persullate, 225-lb. dms. 24,000 lbs. or more, f.o.b.			ı
	I WORKB by	.58	_	ı
_	I JOHD, DOS., BEITTE DASIS IN	EOU	_	ı
2.14	Ammonium phosphate [see CI- and mo phates).	MORITIMON	ilum phos-	ı
	Ammorium silicofluorida, dms. c.l., t.l.,			1
-	Ammonium suifste ig. gran., bulk, c.t.,	.30%	-	Г
~		80.00	90.00	ı
1.00	I SWII WILL DUR. I.D.D WIVE 100	60.00	70.00	
1.30	tech., bgs., c.l., t.t., works Ion Arnmonium sulfide, fiq., 40-44% tanks,	108.00	120.00	ì
	I IUU7a Dasis iri aduald Jac	460.00		L
_	I CHINDING SUIDCVANION TOCK I SOO A MORE	onlum thic	cyaneta).	L
-	bgs., c.l., works			Į
-	TARKE FOR	1.02	-	ĺ
-	Ammonium thiosullate, photographic,	.93	-	L
5.00	UU78. IMPIKR I O PI WAPLE IL	.13		Г
1	ANALIMITATI SACOUAL CONDUCTOR CON		_	L
-	Amyl acetate, primary mixed isomers,	.72	-	[ ]
•	I IMIKAL CIVO B.	.57	-	Į,
0.10	lanka, frt. elift	.481/2		١,
_		2.85	2.50	۱,
	Arrivis oil drug.	.91	1.03	ľ
-		11.00 10.20	-	8
-	Angelog root of hote	4.50	4.60	
		00.00	-	
-	Anisecii, dms	8.90	.351/1	E

Amino-2-methyl-1-propenol, 05%, dms., c.l., t.t., i o.b. works . ib.	.05	-	Aniso seed, Chineso, hgs	1.40	
tenks, I.o.b. works	.89	-	Turkish typs	1.10	-
N.C	3.95	_	Anisic aldohydo, cns. dns. b.  O Anisichie, imp. dins. dlvd. b.  D Anisichie, imp. dins. dlvd. lo.	1.05	-
Aminophanol, t.l. dms., i.o.b. Releigh, N.C kilo	7.15		p-Ansidine, imp cost solid, dms.	2.27	5.40
Aminosalicylic acki, USP, 50-kilo	7.13	-	llakos some bacos b	1.90	_
dms., t.l	18 50	-	Anthronaic Beld, puril , 99% min., dms.	2.25	Ξ
tenks, dlvd, Midwest termi-			Antimony fluobolato kg cone 175 h.	1.70	
nals ton tankcars, f.o.b. Gull Coast ton	185.00	170.00		3.02	
equeous, 29.4% NH <sub>3</sub> , anhyd. besis.	80.00	85.00	Antimony oxide high lint box	1.35	1.39
tanks, irt. equald. E. of Rock- les	284.00	245 00	Antimony trichleride as b	1.25	-
MONISCAI MILIOI ISSA AMMONIS AGUA	200.00 DUS).	315 00	dms 11 works annyd . Bolid,		1.50
moniscsal, galvanizing grads, bgs. cl., f.o.b. works 100lbs			repartion by the reparties of the repart	3.90	•
MONISC 881. White (see Ammonium ch	28.80 koride cor	ni.).		5.00	-
monium biborete, gran., dms., c.t. worksib.			SOFAY dood	2.05 1.85	215
INTIUMUM DIDORATE DOWNER 15c nor III	.00 . highar.	-	USP grado	2.00 8.75	260
monium bicerbonate, 300-lb, fib. dms.,c.l., works 100 bs.			Detrolaum grom viet (888 30	lyant.	000hiha
398., C.I	25.00 25.00	-	Arsonic cruda ison Arganiana bas da		· ····································
monlum bichromate, photo-litho grade, gran. 100-lb. dms., i.i.l.			Arsonioua trioxide, 99% bulk at		
WORKS IN	2.00	_		.42	.45
monium billuoride, bge., 1.1., works			Ascorbic acid, U.S.P. 100 kilos		.40
INDINUIT DOMINIO, COM. N.F. Gran.	.70	-	l CIVO Lut-	1.00	
dms., c.l., t.l., l.o b. works . b. monlum chlorids, white, tech.,	1.31	-	Aaphait disonito (see Gleonie)		_
INTE Bran., DOS., C.I.			Aspriant politoloum cutback tanks C		
works	18.00			.86	-
Invitium carale, dibasic, 250.ih	.40	.53	omulsion, tanks, tankwagons, E. Coast gal steam ratined, 40-300 pensiration,	.68	-
dma.f.o.b. worksb. monium dimolybdate, approx.	2.79	-	lanks lankwagon	n	
Barre 24 (100) lbs or more lb	5.48	_	steep rooming Brada, bulk tankwag-		-
nunium tiuoborale, techdms		_	i napiiki, dar, tryst., powd 250.	.00	-
c.t., t.l., works, frt. equald ib. nonlum heptamolybdeta, crysl.,	1.79	-	10.0msc.l1.o.b. 1b <	.95	-
ams., 24.000 lbs. Loh			10% starch granulation, white, 250- lb. dm, c L, I.o.b. lb. 1	.97	_
works	5.57	-	basis white, same	60	
worka	.29	.32	Freight Guize, Shipt, Identical quantity over	80 standa	rd routes
I.O.D. MODULAM Ore too	72.00	_	Louis.	Chicago	and St.
IIVIIIVIII IIICAIB. dom., lerifiizar		_	Atropina sullate, USP, bots oz 10		11.00
grade, 33.5% N. bulk, S.E. divd	130.00	135.00	AZEIBIC BCIO, tech., 50-lb. bos., t.l., c t.	00	4.50
nonium osalete, tech., fina. gran. 300-lb. dms., tt., f.o.b.			l giva ih 1	23	-
WO/KB	1.42	1.88	AZO YAROW, 10 G, bas divd E di	00	6.50
ci works			I DOCKINS IN IN IN	85	-
monum peniaborata powder 20c	.75	-	Azo G yellow pigmont, bgssams ba- sis	85	_
per lb. higher. nonium persullate, 225-lb. dms.					
24,000 lbs. or more. Loh					
worke lb.	.58	-			
colum priosphate   see Cl- and mor	.5814 noammon	lum phos			
phetes). nonium silicofluoride, dms. c.l., t.l.,		mina.			
WO/KS	.30%	_			
works.		00.00	Bacitracin, USP, non-stenia, one billion units or more million units 5.3	D	6.80
COMIL. DUK tob works too	80.00 60.00	90.00 70.00	Barbitol, NF, 50-kto dms . dlvd kto 22.5		-
onium suilide, fig., 40-44% tenke	08.00	120.00	8arbitat-sodium, NF, 50-kilo dms. divdkilo 230		_
100% DASIS Int squald too 4	60.00		Barita, dry-grd., Southern, off-color,	_	
onium sullocyanida, tech. (ase Ammo onium thiocyanate, tech., cryst.,	mlum thio	cyaneta).	coarse, bgs., c.l., l.o b. mines lo.	3	.11
bos. c.l., worke	1.02		Watar-Brd., whila, bgs., c.l.,	3	-
equald 50%, tanks, frt.			unblaeched, extre-fine, pigment grade, c.l., l.o.b. worka ton 180.0	ю	_
MINUTE CHOSULADA DINATAGRANIA	.93	-	Barium carbonate, predp., bulk, c.l.,		
60%, tanks, f.o.b. works ib. onlum zirconyl carbonate, soin.,	.13	-	works, irr. equeld 10	5 51/2	-
DUIK.	.72	_	phote grade, bgs., sems basis ton 510.0		-
activity, Drimary mixed iscomes		-	Barium chlorato, 100-lb. dms., 1-10	4	_
Sicohol, primery mixed learners	.57	-	Barlum chloride, tech., cryst., bgs., c.t.,		-
	.4812	_	workston 470.0		-
-Amylohanol hulk works	2.85	2.50	Barium chlorida, purif., cyret. 400-lb.		-
	.91 11.00	1.03	drns., worke	В	-
P. dms.	10.20	· ·	8srium monohydrato, 55-lb. bgs., c.l., I.I. f.o.b. works 100 lbs. 48.0	0	-
	4.50 00.00	4.80	octehydrala, cryel., bgs., seme		_
e, tanks, I.o.blb.	33	.351/2	Berium nitrote, 100-lb. bgs., t.l.,	•	
	8.90		works 100 bs. 32.5	_	

# THE TERMINOLOGY OF THE CHEMICAL MARKETPLACE

emo AMP po anhy AOA Of a.p.e appr appr artif. ASTI	/allowed rph./amorphous rph./amorphous rph./amorloss melling pint rd./anhydrous (C/Associatian of lificial Agricultural nemists/avellsbie phos- oric acid o5./approximetely /artificiaf if/American Soci- y for Testing &
81	y for Testing & etsrials

e.p./snd point equald./equalize asp./expresead astr./extracted F./Fahrenheit

kga/kege I-/Isave Ib./pound in. /pound in. /l. /lase carloed it. /l. /lase truckload it. /liquid in. /meta in. /messed anilin point ineg. /microgrem inin. /minimum inin. /minimum mott. /motien in. -p. /metilne point l.b.p/initial boiling point imp./imported

pf./prool phos./phosphete photo/photograp pkga./packagee powd./powdered

tanka/raliroad tankoara tech./technical tert./tertlary t.l./truakload ton/rafers to short ton of 2,000 pounds TVA/temperary volun-tary allowarios t.w./tankwagona USP/United Bieles Pharmacopala via /viscosity VM&P/varnish makers & painters W/West whse,/warshouse w.w./water-white

NOTE: A unit-ton is 1 percent of 2,000 pounds of the basic constituent or other standard of the material, The percentage ligure of the basic constituent multiplied by the unit-ton price shown in Chamical Marketing Reporter gives the price of 2,000 pounds of the material.

aece./seconds
sp.g./apecific gravity
ship't/shipment
soin./actution
std./standerd
syn./synthetic

Bismuth subhirate NF, powd., 200-lb.

dris., works. b. 14.45

Bismuth subhirate NF, powd., 200-lb.

dris., works. b. 17.00

Bismuth subhirate period powd., 50-100 lb. dris., works. b. 17.00

Bismuth subhirate pregent powd., 100-lb. dris., works. b. 15.00

Bismuth subhirate pregent powd., 100-lb. dris., works. b. 15.00

Bismuth subhirate prede, seme besid. b. 67

powearbonate grade, same besid. b. 71

Bismuth subhirate grade, same besid. b. 72

Bismuth subhirate grade, same besid. b. 71

Bismuth subhirate grade, same besid. b. 71

Bismuth subhirate grade, same besid. b. 72

Bismuth subhirate grade, same besid. b. 71

Bismuth subhirate grade, same besid. b. 71

Bismuth subhirate grade, same besid. b. 72

Bismuth subhirate grade, same besid. b. 71

Bismuth subhir

. .

tech grade, t.l., dme., semo treelalb.

Laws, Lo.b. 10.

Benzyl danameto, 25-lb. cns. 1b.

Benzyl-N,N-dimethylemino, 1.1.,
dms. Lo.b. works 1b.

Benzyl-mate, dms. 1b.

Senzyl-mate, dms. 1b.

Benzyl-mate, dms. 1b.

Benzyl-ma

Bemuth subcarbonate, USP, medium powd., 225-lb. dme., works. b. 6ismuth autogalieta, puril., 100-lb. dms., works. b. b. 6smuth submirrate NF, powd., 200-lb.

Steri-Buly/int-cresol (see Mono-tert-butyt-m-cresol)

Berzyl isoeugenot, dms. ... ib. 15.50 
Berzyl propionete, dms. ... ib. 3.36

Berzyl sekcylete ... ib. 2.90 3.25

Berzyleskcylete ... ib. 2.95 3.25

Berganot oll ... kilo 44.75 
Belahydroxynaphtholc acid (see b-Oxynaphtholo acid).

Bioth, cryst. 500 gms. or mere ... gm. 8.00 5.50

Biphenyl (see Diphenyl).

Bismuth nitre le, purif. cryst. 100
Bismuth oxychloride, 100-lb. dma.

Worke ... ib. 17.20 -

15.31 10.50

Oorex, tech., gran., decelydrata, 9917% bgs., cl., works... ton 192.00 toch., pentohydrata, gran. 991/2%, 655.00 31.25 30.00 Boron trichtorida, CP, 1,800-lb. cyla, works. lb. 3.80
Boron trifluorida, 50-lb. cyls., t.l., l.o.b. Brim ruffde (black ash), dms., c.l., 460.00 .95 .65 .84 55.00 62.00 52.00 11.00 2.70 3.00 Beyol, NF, 50-50%, ctris.

Beybery wax, Dgs.

Besswäx, raid., bleached whita,

bricks, 100- Ro ctris.

white, slabs, 100-lb. ctris.

jebow, briefs, 100-lb. ctris.

jebow, slabs, 100-lb. ctris.

b.

petow, slabs, 100-lb. ctris.

b.

Bentorite, com., c.l. bags, 1.o.b. 3.10 3.05 3.00 2.65 3.20 3.10 3.10 3.05 works ton Benakehyde, NF, dms., ib. isch, dms., cl., tl., ib. Prices are 4c. per fo, higher West of 43.50 1.25 the Rockies. Bevare, Indust or nitration, barges, t.o.b. sec-Butyl accohol, syn., tenks, dvd. ld. tert-Butyl accohol, syn., tenks, dvd. lb. Butyl aldehyde (see Butyraldehyde) Butyl banzyl phthalats, lenks, frt. .70 alid b.
Butyl chloride, tanks, works. b.
Butyl cyclohexyl phthalate, tanks,
divd. b. 1.00 .74 1.85 Butyl teodacyl phihalate, tanks, divd.

n-Butyllatetals, lanks, Lob, works lb.
n-Butyllatetals, lanks, Lob, works lb.
n-Butyllatetals, lanks, Lob, works lb.
basie, divd. lb.
tanks, 3,000-lb. min., 100% basis, divd. lb.
Butyl mathacryteta, 1anks, lirt.
equeld. lb.
Butyl octyl phthalats, tanks, divd.
E. lb.
Butyl oketa, dist, dms, c.l. lb.
1anks. lb.
b-tanks works lb.
Butyl phthalats (saa 0 doutyl phthalate), 8utyl stearsta cosmatic, dms., 77 dms.
or mora. lb.
tanks. lb. 4.90 3.38 5.80 7.35 5.95 erzione orange, powd., bos. divd lb. 14.75 f. b. works kg. 10.00

Benothydropyrone, dms. b. 12.50

Benote ood, tech., bgs., c.l., i.t., t.o. b.
works kg. 11.50 .40 .70 .80 .70 works tb. USP cryst\_drist, tontota same ba-als 1.73 1.80 1.75 more, I.o.b. ID.

SF, 1,000 kilos or more, I.o.b. kg.
tech, 1,000 kilos or more, I.o.b tenks. Ib. 99
tenks. Ib. 95
tenks. Ib. 95
Butylstaersta tech., t.l. Ib. 55
Butylsmina (see Mono, Ol- and Tributylsmina).
terl-Butylsmina, dme, c.l., t.l., l.o.b.
works. Ib. 1.3
tanks, seme basis. Ib. 1.3
Butylated hydroxysmisoke, lood grade,
dms, dwd. Ib. Butylated hydroxysolusna, lood, feed
gradee, cl., t.l., bgs., dwd. Ib. 1.2
tech., bgs., c.l., t.l., dwd. Ib. 2.4
Butyredehyde, tanks, divd. Ib. 2.4
Butyredehyde, tanks, divd. Ib. 2.4
Butyredehyde, tanks, lo.b. plant. Ib. 1.2
n-Butyrolatione, tenks, l.o.b. plant. Ib. 1.2
n-Butyrolatione, tenks, l.o.b. plant. Ib. 1.2
lanks, divd. Ib. 1.5 8.60 .87 .80 .57 .74% .38 take, iff. equald. ID.
Berzoyi chioride drus., c. L., works. Ib.
take, iff. equald. Ib.
Berzoyi peroxide, ragular gran.,
10,000-ib. tots or more, brgs.,
works, iff. equald. Ib.
paste, 50% and 55% formulations. 8.98 2.35 1.71 1.00 dms., pañs, fri. equald. . . . lb. 1.95 1.25 1.37 photo grade, 1.1., dms., same batanks, same basis 

Calcium cerbida, std., generator size, bulk, c.l., l.o.b., works,... ton Calcium carbonate, pulverized, 325-mash, bgs., bulk, l.o.b. 97.00 100.00 lime, gran., ind., bulk, work-Catclum carbonats, precip., bgs., cl.,t1.....ton 365.00 445. Caldum carbonate pracip, medium, precip. dense. bgs., c.t., surface treated, bgs., c.t., works. ton ullreftns, USP, bos.. 80%, flake, bulk, o.1. anhyd., 04-97%, flake or patiet, bulk, sis, t.c., I.I., berge . . . . . ton 45% sema basis . . . . Calcium chloride, U3P, gran., 225-b. dms., tJ., frt. equald. . . . . fb. Calcium citrata, purif., 200-lb. dms., 10,000 lba. or more, t.o.b. Calcium lodate, FCC dms., I.o.b. 

grams per lb., l.o.b., frl. eld., 500 ibs or mora b. Calcium phospheta, dibasic, taad Calcium sticate, hydrated, bgs., c.l., Catomel. NF, mild powd., 100-lb. dms., lb. 8.50

Camphene chlorinsted. 67-89% (see Toxaphene). Camphor, monobromsted. dms., kgs. lb. 3.63

Camphor, syn., tech., 165-lb. dms., 5,000 lbs. or mora. lb. 1.80

U5P, powd., 165-lb. dms., 5,000 lb. lots or mora. lb. 2.36

syn., reld., 1-oz. teblets, ctns. 1,000-lb. lots or mora. lb. 3.60

Camphor off, yellow, 25-lb. dms. lb. 1.85

Camphor off, yellow, 25-lb. dms. lb. 2.00

white, dms. lb. 2.05 Camphor ol, yellow, 20-10, area. Ib.
white, dms. Ib.
apec. grav., 1,070, dms. Ib.
Cananga oil, indonesian, dms. kilo
Candella wax, crude, bgs. Ib.
reid, pute, bgs. Ib.

3.73

11.33 9.18 10.69

2.27 3.22

1.20

2.10

3.97 4.47

6.77 5.27

5.72 8.37 7.47

2.97

4.05

8.60

5.80 1.50 28.80 35.00

1.50

8.80 6.30

3.00

medium-light shade, bote, earle tosla. b.
Cadmum-mercury fithopone, maroon
shade, bbis., frt. slid. E. of
Rockles...b.
Cadmum metal ingots or slicke, ton
lote, cs., dvd...b.
Cadmium nitrate, puril., flake 400-lb.
dms, c.l. Ll., f.o.b. ship. pl.fb.
Cadmium-satenide-lithopone, orange,

Cadmium-seienide lithopone, orange, ight shade, bbls., 400-b. lote. frt. sid. E. of Rockles. . . . ib. deep shade, bbls., same basis. . . ib. Cadmium-soienide tithopone, red, dark shade, bbls., same basis. . ib. fight shade, bbls., same basis. . . ib. medium fight shade, bbls., same basis. . . ib.

medium light shade, ibie., same beists.

medium ehade, bbis., same basis. ib.
meroon shede, bbis., same basis. ib.
meroon shede, bbis., same basis. ib.
Cadmium selende litinopone, yelow, sil
shedes, bbis., same basis. ib.
Cadmium selfate, 50-lb. dine. any
quantity, 1.o.b. ehip. pt.
ib.
Caffeine, dom., USP, sym. cryst. anhyd., powd., 100-lb. dins. c.l.,
ii., it. eld.
iii., cryst., anhyd., powd., dins.
Calamine, USP, dins.
ib.
Calamine, usp.
Calamine

.1600		:
.00	WEEK ENDING DEC. 26, 1988	
.00	Carbon black, low structure, bulk, c.l. works	
-	works	
5.00	(ISAF)	
_	aupsr-abrasion (SAF), bulk, o.l., worksb31	
_	bgs., c.l., works	
	works. b210 - bgs, cl. works. b240 - Carbon black, thermal, medium, bgs.	
_	c.l., works	
_	Carbon black oil, barge, I.o.b. Gulf re- lineries bbls. 10.60 12.60	
-	Lo.b. W. coast rafineries bbls. 10.50 12.50 Carbon disulfide, t.c., I.o.b. works ton 420.00	
-	Carbon tetrachloride, CP, consumers, dms., c.t., frt. alid lb	
-	frt eld	
60.00	Carboxymethyl callulose (see CMC). Cardemon of NF, bots	
13.25	Cardamone, decori, Guetemalan lb. 2.90 green, Guetemalan, bgs lb. 5.75 7.50	
10,20	Carmine, No. 40, NF, bulk, 100-lb. lots or mora, divd	
-	Coors No 1 vallow hos. 100	
14.50	North Country, No. 2, refined, bas.	
-	Comparison was North Country No. 3.	
25.85	Centraluged, bgs., ton lots . Ib 1.10 - North Country, No. 3, refined, bgs., ton lots . Ib 1.30 1.45	
-	Powdared carnaubs wax, 20 to 100 mesh, 20c. per lb. higher.	·
-	1 to Ceretone in venet SNIP Oil Sertil: SOIKI	
-	suspension, 400,000 A unite per gram., 33 lbs. or more., lb 32.75 - b-Carolana, liq. in vagatabla oil.	
-	the or more	
-	b-Carotene, dry, beads, 10%, 167,000 Aunitspor gram 50-lb. cns tu 26 85 	
8.50	I Carvons	
	Casein, imp., acid-precip., grd., 30- mesh, Austrniish, odibio.	
-	Same basis C.I	
_	Cassella acid, 303 mol. vr., dms., 1n.	
	alid. 100% basis tb 3.70 Cassis, Korinti, "A" bgs ib. 1.08 1.20 "B" bgs ib 85	
-	Cassis oil Chinesa, dins	
-	U5P 5-9 dms lb. 74	
	debutered coded tanks Ib	
-	dehydraled unboolad, lanksb. t.10	
_	Castor pomace, bgs., container load.	
.55	Castoreum, net., cns. b. 18 00 35.00	
_	Castoreum, ner., cris	
	tech., bgs., t.t., same basis	
-	Caustic soda (see Soda, caustic). Cadarleal off, dms	
3.70	16x85	
-	Cedrol, prime dries	
-	Celery seed, incitan, bgs	
:	Cellulose scetats, powd., bgs., t.l., dwd. E	
2.85		
=	divid. E	
.65 .65	Gefulose gum, pure, high vis., bgs.	
5.30	5 January mortage Ve., bos., C.I.,	
-	std. low of measure vs ib. 1.80 1.90 1.1. lo.b. Hopewell, vs ib. 1.80 1.90 Certum concentrate CeC <sub>8</sub> , 50 lbs lb. 1.35	•
-	Cerlum hydroxide 90% CeO <sub>3</sub> , dms. 5.40 works. b. 4.20 1.60	0
W	Cerium golde, optical grade, bgs., 50- Cerium golde, optical grade, bgs., 50-	0.
	a transfer of the greek E.D	
0	Carylacono, in the Caronatel, Charlet (see Calcium carbonate), Charlet (see Calcium carbonate), Charlet (see Calcium carbonate), Charlet (see Carb	
18.0	00 Chamomile oil, blue, Egyptian b. 545.00 Chamomile oil, blue, Egyptian b. 370.80	
0 25.0	Chanopodidin oi, NF, cos. b. 15.00 Chanopodidin oi, NF, cos. b. 13.60	
	Chies (see Pepper, red).	٠,
125 425	Chlorinated paraffin, 40% chloring.	1514
2075 2375	50% chlorine, same basis b. 46%	(7\ <u>).</u> 18\)
	704 chloring resinous, 50-ib	٠٠.

December 29, 1986

molten, lanks, same beta. b.
Capryle alcohol sec. 92-98% lanks,
[.o.b. works. b.
Capryle add, comi. pure lanks. b.
Capscum (see Pepper, red).
Capscum (see Capsicum oleoresin).
Capsicum oleoresin. NF, Irom dom.,
pepper, drns. b.
NF, from African pepper, drns.
son not ourgency. b.

ens. .... Caprotectem monomer, liana, use lib.

CHEMICAL MARKETING REPORTER

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December 29, 1988

CH	EM	IC	A	
PR	CE	S		

	ITNIVE				tion RP-3 works
	WEEK ENDING DEC	10.40		Cot	pait acetate, chns pait carbonate,
	WEEK ENDING DEC. 2			Cob	alid alt chloride, dr
	Chlorinated paraifin, Zone 2 prices at Zone 3 prices are 2c per lb. hi	re ic. pe Igherend	r Ib. higher ei t.i. drum prici		more, fr. eq alt hydrate, dms
	Chlorinsted rubber, 5, 10, 20 cns. hos				dos., f.o.b.
	, 40 cps, bgs., t.l., divd.	1.6			all nephihans:
	125 cps., bgs., t.l., divd	9.7		Cobi	alt nitreta, dme., alt oxide, imp.,
	Lob to square	1050	200.00	Cobs	Co
٠.	Ilska, 99% bulk In b				it phosphate po drns., divd
	worksb 2-Chloro-4-sminotolusno, lech lin		-		dis radinate in
	o-Chioroaniline, liquid, dms., cl. fo.b.	1.85	-		of more, frt a
	tanks, same basis	1.63 1.55		I Coda	ohydrate, dma. t tellate, 6% Co.
	liake, dms., c.l., same bests	1.55 1.70 2.00	-	Cocule	una bark, big I butter, apot
. •	works	2.45	_	Cocon	utoli(SeeDils, f nutoli acids.
	70 Normalia September 1998 September	3.64	3.85	de	1.0.b Suble distifled, as
,	p-Chiprobenzoic acid. dms. [1]. witg. [b]	3.90	-	I Cod o	IL fab Glou
	Chronoform, tach, tanks, districtive to	1. <b>69</b> .347	2.25	Codein	bulk e s kaloid, NF, 2 e phosphate, US
İ	NF tenks, mm., consumer 4 000	.849		1	iots. ne sullete, NF
ij	2-Chiloro-4-nitroaniline, pasta com-	.354	2 -	1	lots. roff, NF, dms.
ij	fob.	3.08		Copeib:	a baisam, dms a oil, cns., dms.
j	powd., sama basisib. 4-Chloro-2-nitroanlina, paste, 172.5	3.15	Ξ	Copper	ecetate, monol tech., dms., t.l.
. }	mol. wt., commodity basis, dms ,1.l.,f.o.b	2.05		Copper	bromide, (cupric
i Si	powd., same basisib. o-Chloro phenol, dma., c.l., irt.	2.25 2.70	Ξ	Conner	100,000 lbs fracia, works
ì	p-Chlorophenot, dms., c.l., irt.	2.00	2.40		cerbonate, 55 dense, 50-lb. I
d	equaid	1.25	1.70	agent,	works
. 1	1.o.b. works	1.25	-	COPPER	works. chloride (cupric)
: !	p-Chiorotoluena, tech., tsnke,	.1812	-	copper	works. Cyanide, tech. o
٠,	works. b. Cholecalcillerol, dry, 40,000,000 units	1.00	-	Copper t	b. lots or more. luoborate, (cupi
į		24.00	-		dms., t.l., v equald
:	KIIO CINS., J.O.D. Springfiate		ĺ	Copper	luconate, FCC im., frt. equald.
	Mo	8.90	- 1		metal electroly: livd., domestic,
. :	Rockles b. 80% dry supplement b.	.28	-		naphthanate, i
1	Choline chloride, 60% dry supplement, but hoper cars b.	.38	-		nitrate (cupric), ims., 1.l., works.
ì	bgs. 50,000 lbs. min. b. Cholina chloride, pharmacautical, 50	.39 .40	Ξ	1	oleste, solid, 8 works int slid
	AUO, IOIS, 1.0.D. SERINGRAM			Copper	oxide, black (c 30,000-lb.lots.v
:	Mokito. Chotine dihydrogen chrate, 88% min.	5.00	-	Lead (Cri	Prous), dms. 97
•	50 kilo lots, t.o.b. Springfield, Mo	6.00	_	IOU, DU	works. 1%. Type 2, sam
i	WW.E.UIMOCKING D.	1.88	_	Copper-	·8-quinolinois f
. [	light, bgs., same basis	1.70 1.72	-	Copper	Bullate, cryst., j 981 % bos. o
:		1.74	-	CP. pe	Morks
	Rockies bbs, divd E of	.83	.89	monoh	worke
į	Chromic acid, 99¼%, flake dms., o.l., frt. equald	1.09	1.18	basic.	Norke
Ì	Chromium scents not 71680 date	1.18 1.25	:	Coriande	row, USP, dms. I 888d Marocco
	Chromium Buorlds, works. Ib.	.10	- }	Com oil (	Yan
;	Chromium nitrate data 11 Lob Ib	.81	-	Cornor,	Crude, foots (sos
į	basis 500-10. oms. same	1.45	-	tanks	cid, dina
:	bas.cl.	.74 5.50	.88		
4	Cinnamic aidehwis one done	1.90 1.85	2.00		vorks. ecetate USP or more
:	Cinnamon, H2	4.50 1.10	1.95 - 1.15	Cottonsa	eci meai (See Oli eci oli (See Olia
	Consmonless of days		110.00	COLIGINS	aad oll, scidu Rock), acid. 9
i	ava 55-cul dos 10 h	5.50 3.19	6.86	Cottonse	Brigi scide diet
:		1.19	_	Coumarin	NF X. cryst
!	dma1.t. def	.89	. 1	Creamof	119
:	Citronelle oil Jese Too Higher	2.50	_	Creosote	, coaltar, grad

350.00 3.9 t 6.81 4.15 8.20 7.00 2.06 2.74 1.l., frt. alld. . . . lb. 9.51 9.7**6** lused, 3% Co., ...,lb. 1.35 .381/2 ., bgs., 10,000 lba. alid. E. . . lb. e., frt. alid. . . lb. o., dms., dlvd. . lb. 2.81 4.58 2.18 .40 2.05 8.02 ......ib. 2.05 Fats & Waxes market report.). Fats & Waxes market report.).
distilled, 1.c.,
b. 52
eame basis b. 54
bucaster, Mass.,
gal 6.60
25-kilo lots, kilo, 900.00
USP, cns., 25-kilo
kilo 775.00

S. 10. 10. 1.50

s. 10. 1.50

s. 10. 3.75 hydrate, cryst., l., works. . . ib. io) 200-ib, dms., -per-year con-ib. .71 1.34 5% Cu, dark, bga., c.l., t.l., 100 bs. 108.80 bags, c.l., t.l., 100 lbs. 109.30 dms., 24,000 .90 pric), liq. conc., works, Iri. 2.30 2.62 .82 grade, 25-to. ylic wire bars, 6.50 iq., 8% Cu., .621/2 b.), puril., flake, s. b. 6% Cu. dms, b. (cupric), dms, works. b. 17%, USN Type, 000-lb. lots, b. 1.19 .4314 .97 1.21 me basis . . . b. fa, 10%, liq. lvd. . . . lb. 1.19 1.15 t.20 -2.52 pentehydrate. 46.45 60.00 75.10 88.30 32.00 .36 .36 34.00 8..... ib. 32.00 can.... ib. 36.30 .... ib. 36.36 .... ib. 36.36 .... ib. 36.36 .... ib. 36.38 .... ib. 36.39 ... ib. 36.39 .... ib. 36.39 ... ib. 36.39 .... ib. 36.39 ... ib. 36.39 .... ib. 36.39 ... ib. 36.39 ... ib. 36.39 ... ib .37 .13½ .50 .32 .14 . . . . . . . . . . . lb. tanka, f.o.b. 100 lbs. dme. 5 kilos .40 11.22 11.43 Ms, Fats & Waxes market report.)
I. Fate & Waxes market report.) ulated (soap 95%, lanks, Cottonseed oil scids, dist., dms....ib. tarks ... b.
Coumarin, NF X, cryst., over 600-b.
lots ... b.
Cream of teriar (see Potassium bitartrate). 6.00 Creosote, coaltar, grade 1, tanks, I.o.b. works ... gal. soin, 80/20, tanks, same basis, gal. p-Creaidine, fused, driss, works ... lb. m-Cresol, 95-98%, driss, t.l., t.o.b. ... b. tanks, same basis, seema basis, s 1.19 1.17 m-Cresol, 95-98%, dms., t.l., t.o.b. b. tanks, eame bests b. tanks, eame basts b. tanks, fr. eaks, fr. ea

Cube root, powd., 5% rotenone, basis, 50-lb. bge., I.I., worke ... lb. Cumene, bulk, contract, I.o.b. ... lb. Cumin seed, Indian, bgs. ... lb. kanler, bgs ... lb. Cyanuric ecid, dms., c.t., 1.I. frt. equald. ... lb. equald...b.
Cyclamen eldehyde, 50% min. eldehyde content, dms...b.
98.5%, dms...b. 4.85 7.35 7.85 1.08150 .52 90-3%, dms. lb.
90-92%, dms. lb.
Gyclohexane, bulk, barges, wks. gal.
Cyclohexane tech., tanks, l.o.b. lb.
Cyclohexane tech., tanks, l.o.b. lb.
tanks, divd. lb.
Cyclohexylamine, tech., lanks, works. lb. 4.25 8.16 10.55 3.45 2.4-D scid. tech., 50-lb. bgs., c.l., [.l., works, Irt. equald. ... ib. 1.10 1.25
2.4-D butyl ester, tech., 55-gal. dms., c.l., t.l., works, Irt. equald. ... ib. 1.30 - tanks, same basis. ... ib. 1.25 - 2.4-D dimetrilylemine selt, t.c., t.1. works, Irt. equald. ... gal. 8.05 - Decyl sicohol, mixed isomera, tenks, divd. ... ib. 32 - perfume grade, dms. ... ib. 75 - Defluorinated phosphate (tricelcium), feed grade, 18% P. C.t., bulk, i.o.b. works ... ion 195.00 228.00
Denatured alcohol, ethyl, C018, CD19, tanks, divd. E. ... gal. 1.87 - NOTE: Tenkcar sales require written authorization by Alcohol and Tobacco Tax Olwision.
Denatured alcohol, athyl, 9D28, tanks, divd. E. ... gal. 1.81 - SD3A, tanks, divd. E. ... gal. 1.86 - SD23H, tanks, divd. E. ... gal. 1.89 - 9D29, tanks, divd. E. ... gal. 1.83 - 9D30, tanks, divd. E. ... gal. 1.83 - 9D30, tanks, divd. E. ... gal. 1.83 - 9D30, tanks, divd. E. ... gal. 1.82 - 9D24, tanks, divd. E. . 2.4-D scid. tech., 50-lb. bos., c.l., [.l., Diammonium phosphate, feed grade, 18% N, 20% P, bulk, cl., f.o.b. Fla. works. ton bge., same basis. ton 250.00 Diammonium phosphate, tech., bgs., c.l., t.l., works. fr1. equald. 100 lbs. 52.50 lood grade, bge., c.l., 1l., same basis. 100 lbs. 57.76 dms., c.l., 1l., works. 100 lbs. 57.76 dms., c.l., 1l., works. 10. 1.04 isnks, works. 10. 97 Diamielohe dhydrochloride, 100%, MW 244, dms., 1l., dwd. 1b. 7.00 diamielohe dhydrochloride, 100%, MW 244, dms., 1l., dwd. 1b. 4.25 d. Chiert-Bulty-D-Cresol (see Burtyleted hydroxytoh Dibutyl fumarate, tanks, lo.b. works. 10. 54 Dibutyl phihalate, tanks, works. 10. 55 d. 55 d. 50 Dibutyl amine, dms., cl., dwd. 1b. 1.72 Dibutylamine, dms., cl., dwd. 1b. 1.12 tanks, same basis. 50 lood dms., works. 10. 108 dms., works. 10. 1.08 dms., works. 10. 1.08 dms., works. 10. 1.09 dms., works. 10. 1.00 lood dms., works. 10. 1.80 2.00 1.80 1.15 1.134 4.31 1.71 1.65 .94 .82 .87 .75 .87 .75 1.22 98% reid., dns., c.l., eame ba- als. lib.
tarks, seme basia lib.
tarks, seme basia lib.
p-Dichlorobenzene, graded, 300- lib.
dns., 11, 1.o.b., frt. equald. lib.
tanks, liq., same basia lib.
2,8-Dichloro-4-nifro enilline. dms.,
10,000 lbs. or more, works. lib.
Dichlorophenoxyaceric acid (see 2,4-D).
Dicyclohaxylamine, dms., cl., 1.l.,
1.o.b. lib.
tanks, same basis lib.
Dicyclohaxylamine, dms., cl., 1.l.,
diwd. lib.
Dicyclohaxylamine, lib.
Dicyclohaxylamine, lib.
Dicyclopantadiens, high-purity, 8798%, tanks, works. lib.
Diethanotamine, tanks, works. lib.
Diethanotamine, tanks, works. lib.
Diethanotamine, tanks, trt. alid. lib.
Diethanotamine, tanks, lib.
DDVP (see Dimethyl dichlorovinyl phosph
Oleilhyl barbiturio acid (see Barbitar). 3.30 1.19 1.85 1.25 1.25

		-		
	Diethyl corbonete, lankwegone			
31	divd			Dighterryl oxide, b
	Diathyl athendeming tests a	1.10	: 1	Dehenytemine. Works, i moten, teni
	works G.L., 1.0.D.			octylated, I
	odoriass cosmelic orades	.69	.80	Doreny Iguanica
50	Diathyl gullete tanks for all 5. Ib.	.979		pohenylhyda dma
5	works dms., c.t., t.l.,		-	Diphenyimether polymer
2	Di-2-ethyihoxyl adipata (see Dioctyl adi Diethyl foluamida, 95-97% rrin, mete Isomer, dms., 1.l., I.o.b.	P816).		Deropylene 914 Deropylene 914
	N,N-Diefnyi-m-toluidine, tech., liq.,	2.75		fanks, 88
_	tenka, sama basis	3.18	-	Go-iniyiguanid
	tanks, some basis	3.tg 1.15 1.02	-	Den to by thiour
	works ome., c.L, t.L, l.o.b.	1.83	-	paddecyl phtha Dundacyl phtha
	Diethylbenzene tanks to b works the	1.75	Ξ	gyinylbenzene works dms, 1009
	Di-2-ethylhexyl azelate (see Diociyl azel Di-2-ethylhexyl phthelate (see Diociyl pr Diethylane elycol table, diver			Dodecanol, Sy Occessnyl Suc
	Diethylene glycol, tanks, dvd. E ib. Diethylene glycol monobutyl ether, dma. c.i., irt. olid. E ib.	.2912	311/2	C.L. L.L.
	tenka irt. alid E	.65 .57	-	Dodecylohent
	tanks, frt. alld. E lb.	.64	-	Djes, coalter, o drugs
	dmsc.1. Irt elld	.58 .62	-	and of the FD&C. N
	Diethylene glycol monobutyl ether ac-	.54	-	No.2 Green, FD&C,
	lanks, divd, E ib.	.80 .72	:	FAN FD&C N YANN FD&C
k	etete, dris., c.l., irt. aild F. In	.80	-	Dyes, coaltar,
	lenks, irt. alid	.72	-	green D&C.
	Diethylenetriemine pentaacetic acid,	1.50	1.61	No.8
	pentesodium salt solution, tank- cars/tenktrucks, frt- equelized ib.	45		Ro. 17
	Digivool leurete, dma, ton lote in	2.60 .32½	3.00	No 28
	Digiyooi steareta, dms., t.l lb. Dihydrazine sulleta, dma., works lb	.62 1.10	.73 1.25	No.33 Yellow, D&C.
	Dinydrox vecetone 50-kilo lote	48.00	-	80.8 80.10
	DI-Isobutyl ketona, tanks, divid.	40.00 .80	Ξ	Dyss, coafia:
	Di-Isobutyt phthelate tanks, divd. E ib. Di-Isobutytena, tenks, I.o.b. Hous-	.55	.57	dexi ABIx 1 Biu
	ton ib. Di-isodecyl phthelete, tanks, divd. ib. Di-isononyl phthelete, lenke, divd. ib.	.40	4014	Dyes, ABI ABI45 AM
	Di-iso-octyl ezelete, tenka, divd. E ib. Di-iso-octyl phthelale, tanks, divd ib.	.40 .99 .40	1.07	ABI 113 N
	Di-isopropenolemine, dms., c.l., irt.	.661/2		AGrI6D
	Di isopropylamine dras. c.l. divdib.	.58½ 1.17	-	AO: 8RD AO: 10 W AO: 74 M
	Dilauryi 3,3-thiodipropionele, dms., 11.	1.07	-	AR2G
	Irt. alidib. Dili oil, USP, dmaib.	1.89 7.00	8.25	AR 18 So AR 88 Fa
	Dimethyl anthrenileta, dmab. Dimethyl benzyl carbinyl ecetata, 25-	15.60	-	AR 151 S AV 17 58
	ib. dms ib. Dimethyl carbonata, dme, t.l., l.o.b. worke.	8.95		AY 49 4B A Y 17 Fa
ı	Dimethyl dichlorovinyl phosphete, 55- gal, dms., f.o.b b.	1.80	1.90	8 B 9 Z k
	Olmethyl ethanolamina, anhyd., dms., c.l., divd. E	1.15	1.18	BG1Jac BOI4M
ı	tanks, divd. E	1.07	01,1	BVIME
I	Dimethyl phthelete, tenka, l.o.b	.38	-	8 Y 2 Bo
١	Dimethyl eebecste, tenke, I.o.b	.65 2.48	288	. OB18 A
١	Dimothyl suilete, ret. drne., c.l., l.o.b.	.57	-	0 Bk 22
Ì	worksib. 1anks,ib. Dimethyl suifide, tanks, worksib.	.46 .58	Ξ	0 & 23 20 00:28
I	Dimethyl sullo xido, tanks, worke ib. Dimethylacetamido, bulk i.o.b ib.	.78 .8712	-	0R24E 0R318
ı	Dimethylamino, 25% soln., tanks, Irl. equald., t 00% basis ib.	.631/2	-	OR801 OR811
l	40% soln., tanke, irt. equald., 100% basis	.63%	-	0 R 251
l	Antryd., tanks, frt. equeld lb. N.N-Dimethylanitine, I.I., I.o.b lb.	.54½ 1.03 1.11	-	OY4
l	N.N-Dimethylformamide, drns., o.l., 1.L.	,57	_	8rise 0 Y 1
I	tanks, sama basis	.49 1.22	-	0 Y 4
l	Dinitroantina, orange toner, CP, bgs., divd. E. of Rockies ib.	5.20	-	0Y27
l	2,4-Dinitrochlorobenzene, cryetalizing s1 47°, t.l., i.o.b. Charlotte,			Dis R t
l	N.C	.96	_	015 Y 3 Dis Y 5
1	Charlotte, N.C	1.95 .30	.43	013 Or DIS OT 08 V
1	2,4-Dinifrojoluane, dins., c.l., 1.l.,	.30 t.25		Dis V : Dis 81
1	tanks, works	1.20 1.91	.70	: Da 91 1
1	Dicotyl appets, tanks, trt. asc. E 6. Dicotyl szejale, tanks, divd. E b. Dicotyl philhalate, tanks, divd b.	.99 .40	1.04 .45	VD1 V9k
	Dioctyl sebacate, 99%, tanke, I.o.b. works	1.47	•	
L	1.4-Dioxane, tanks, frt. alid. E lb. 1.1., same basis	1,13 1,21		: 5
1	Olpentaerythritol, bgs., o.L, t.I., divd.	1.42	-	
	Ulpantarie aleem-dist., lanks, 1.0.b. Fla. worksb.	.25 .25	.39 .29	
!	suffata turpentina darived, tanks . b. Dip off (see Ter acid cli).	.20		Endrin, Ephed
ŀ	dom. 1.000-kilo lo le. dms.	0.00 2	4.00	Ephed
!	Diphenyl, 98,8%, bge., c.l., 1.l., works.	.74		Ephed
-	fanks, works	65		Eplew

			Color	helma hana nun	Lico hote			Ferr
phenyloxide, tech grade, lanks lb.	1.11	1.20		hrine base, syn 100-gram fols.	gram	.80	. <del>-</del>	
prenylamine to avoid	1.25 1.00	- 1	Epoxy I	esin, liquid, bulk 1 bg 9 ., t.l	erks, divd lb.	1.31 1.2 <b>6</b> 7	1.41 5 1.33	
motion, tanks, works		_	Epson	self (see Magne	skum sultate).			Fen
works.	7.88	-	Eryllio	dns., 11. or n				Fan
portyguanidne, bgs., t.l., trt. aild.	2.52		Feter /	works	lyon dms. cl.	4.10	4.25	Fen
Duhenyihydanioin-Audioin Co.	5.00	5.60	Cafei	dvd., IR., Md.,	Ky., E. States,			Fer
Olassociale V Villanciale					V.C., Ohio, 81. , Va., W. Ve. Ib.	.75	_	Fer
boymons of the	.91	-	Ester	um, wood-rasin		.43	.44	
	.40V2	421/2	Ethyl	scelete, syn., 8	5-88%, 18nks.			bos
Doropylene grycus that the the the	.54	-		gg%, tanks, div	d	.41		2V2 Fe
tanks, same basis.	,4B	-	Ethyl	celeacetata dm	s,, c.l., 6/vd ID.	1.13 1.05		1
Dio-lolyguanions, povider dissert disse	2.92	-	Ethyl	coviata, tenks, li	ri alidb.	.88		l l
Datelythioures, tech., solid, dms., L. in. alid	3.t1	.85	Ethyl	irea tanka di	ed pt., USP tex	1.55	-	20
midecyl phihalata, tanks, divd 10.	.64 .81	.85	Eth	yl alcohol, ebsoli	ute, 200 pl., tex	free price	38 12c. H	igher Fe
Shansond IIII Sa Uasia, Iguno	2.75	2.60	Ethyl	than 180 pl., t alcohol, lema	ntetion, tenke,			on Fe
Works. Ib.	3.00	2.70	Pri	1.o.b. works .	able to various ata	1.08 Ita tax in	centives.	I
indecand, syn., tanks, l.o.b ib. odecand succinic anhydride. dms	.78%	-	Ethyd	alcohol, danat, is	sea Donatured ak	xonoi, etr	ryl).	
el ti divo	.88	-	Ethyl	benzoale, dms	e, NF (see Benzo	1.35	5 1.5	50
polecylbenzens (see Detergent Aikylete,			Ethyl	bromide, tech.,	98%, dme., c.l., b.	.70	3 -	.
e	.48	.53	Ethy	butyrata, drns	, lb.	1.3	5 1.6	50 F
byes, coalier, certified colors for food, drugs and cosmetics, 100 fb.				bos. t.J., Irl.	acuaid. E	4.5	5 -	
end over. frt. prepaid or alid See, FD&C. No. 1	21.20	22.60	ete	inderd vie., 10, 2	20, 40, 100 (4)3.,		7 4.	.22 F
Un 9	29.15	29.22	m	dium vis., 50,70	d, E			_   F
Geen, FD&C, No. 3	49.50 24.00	65.00 24. <b>6</b> 0		equald. E	s., 1.l., frt. equald.	4.2	5 -	-
MARIE EDEC NO 5	7.45	7.85 8.75		E	10.	. 7.0	8 .	-
No. 8	8.45	0.70	U	SP 10,20,45,10	00 bgs., t.l., lr1	4.5	9 4.	.89
and cosmetics. Tut-ib. lots			V	SP (madlum) 50	,70,100 bgs., 11 E		i1 ·	-
GNO. S	38.50	-	Ethy	dehloride tech	cvis., frt. ettd ID		26 .	281/2 F
No.8	42.80 18.85	-		tenks irt ski	s. kilo			.261/2
1 PA 17	36.90	-	Bh	a ethanolaminas	. MIXEO, OTHE, IJ	4	99	_ 1
No. 19	38.25 12.45	-		tanks divd. E.	lt	1.	15	-
155 00	59.95 48.96	_	Eth	vi ether, relined, i	tanka, 1.0.b It		46 25 4	.75
No.33 Ib. Yelow, D&C. No. 7 Rb.	21.00	-	2-E	thutsexnic sold of	SMB., C.L. I.J., CIVE	1.		_
No.8	20.55 48.80	48.85			1	J	B3 57	- 1
De 11	35.25	-	2-6	Thulbovol Bory	HAIA. AIFBIONL L	JI .	79.5	- 1
Dos. coafiar, for general use in cloth and paper dyeing toy Color In-			2-E	the hazyl alcoho	e, Irl. elki. E I I, tenks, divd I	D	35	-
dex Name). 1.Q.D. Works	e 75	_	1 54	every oblive by	works	D. O.	.25 .B0	- 1
A Bik 1 Blue black ex. concb. Dyes, A Bi 9 Blue 2 Gb.	5.48	-	Ett	rul hinaly) acata	ILB. ZAII" DO.Ac			_ 1
ABI45 Alizanne 9 to SAP 150% . ID.	19.85 14 13	_		dette	ale, tenke, ir	t.	.B5	_
ABI90 Afizarina Br. Cy G lb. ABI 113 Navy 5R lb	B.55	-		ACHIBIO		D	.06	-
AGr16 Dast 2G 333%	22.12 3.72	_		alld	ne, dma., 1J., Ir	U	-00-	
ACrandex Cosc	. 4.00	-		leake name has		D. I	.92	- (
A Or 10 Wool Or G	4.30 0.15	_	1 "	worke	ylamine, dmi	lb. 1	.04	-
AR2G	5.13	-		hyl oxaleta (see E				1
AR 14 Azo Rubine 133%	5.45	-		had cilicate dist (9	ee Tetrasthylori % available SIC	IN SHICKLE	3).	
AR 88 Fast Red A. Conc Ib AR 151 Silk Red 3B Conc Ib	. 8.85		E	dmt 11.1	O.D. WOLKE	IU	.45 1. <b>3</b> 9	1.46
1 AV 17 58NS Cong	). 9.75	-	N.	Ethyl matchulding	works	15.,		
AY 49 4BNS Conc	5.69	-	"	0 0	a basis.	1D. 1	3.18 3.10	- 1
AY23 Tartrazina Ex Conc R	), 6,18	_	N	Citing a toludeing	dms	. D.	2.65	2.90
8 BI 9 Zho Free	b. 4.42	-	ΙĒ	thyl vanithn 1001	D. gme., auu isa.	.1b. I	3.50	-
BG1 Jade Crystale	D. 9.23		- }	DE the date 5(1)	I She Of Midre	. IQ	3.75 4.00	14.50
<ul> <li>8 V1 Methyl Violet Crystale</li></ul>	D. <b>8</b> .60	-	١,	shulamina fess N	ss than 500 lbs lono-Di- and Tri-)			
BY 10 Rhodamine B Ex	b. 10.10	-	1	-Ethylanilina, o	MS., C.I., LJ., I.		1.66	-
0 Bt 1 Sky Blue 819 Conc	b. 4.82			terle asmoke	ale	. ID.	1.58	-
. UBI8 Azurina Q Conc	D. 9.40	-		hylbanzana, o	UK, 1.0.D. 1600	.lb.	.22	.23
Fast Black GR 150%	D. 4.21		1	Thulana contier	t, dvd.		.18 18.00	.18½ 18.25
0 Br 230 Resin Fest Brown BRM	48		l l	Structure (Northead)	BH76. LEIROS. I	U,D,	1.30	1.305
200%. Oor 28 Resin Feet Dresn Qt	to. 9.15	-	١.	Worka	divoriodide	.b.	7.65	9.25
OR 24B Ex. Conc. OR 31 8 milliant - Red 129 Conc	lb. 7.9		- 15	Eshistanania MKA	IRICHEGRIC DON	100		
0 R 80 Faet Red 68 LN	1b. 8.1	6 -		Let Acres	m esti, soln., 1.0., kl	ID.	.361/2	-
OR81 Paper Red 8BLP OR251 Fast Scarlet AV	lb. 8.2	в -	- 1	Ethylene dibror	Mge awer' cur	b.	.36	.46
UCt 102 Feet Orange WSP Lig	10. 2.4		- 1	sauka feb and	DIA	10.	.32	.42
WS.Conc. 150%	QΧ			Ethylene dichk	Mine falles!	b.	.17	.1714
8risant Paper Yell 3DX Liq			- 1	Ethylene glycol	, indust tanks	, fr1.	.31	-
0 Y 11 Stilbana Yellow GA.	Ex.	_	. ]				.411/2	-
0 Y 41 Feet Yellow RGL Co	nc.		Ì	TANABA GIVE	ol monoathyl 8	thar,	-	
200%. 0 Y 27 Resin Fast Yellow L5G	. b. d.		: ]				.51	-
Dis R t Scarlet BA	.lb. 4.2	9 -	: 1		monomethyl e		.34	-
0is Y 3 Yellow G	.lb. 21.3	85 -	.	Ethylene glyco	monopulyi euk	<b>lb</b> .	.641/2	-
Dis Y 54 Yallow 3G	.b. 6.	84 -	: 1	Thulana sheet	i monoettivi uut	81 00	.55%	
Ols Or 3 Orange GRA Dis Or 37 Orange OB	.1b. 3.	77 -		0 (010,	moography ath	S 80-	-	
O's V 1 4RN Peets	.10. /.		:	61816	Marke I o b	b.	.43 .85	.45
Dis 91 27 Blue BGLF	.lb. 10.	05 -	: l		tanks I.o.b			_
Da 91 102 Blue GFDA 300% 50% Paste	10. 4.	10 -	- '	Eucalyptol, NF	eriore Chinese .	, klo	3.65	-
V D 1 Jads Green Double Paste V 9k 25 Olys TA Paste.	.lb. 5.	.60 -	<u>-</u> .	Eugenol, USP,	dms.	klo	7,65	
								: .
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					1.00			

Fernel off, sweet, USP, ons.

Endrin, lech., 95-99%, dms., t.l. ... lb. Ephedrins, syn. armyd., USP, 80-oz.

7.00

1.25

40,25

45.25

_	_				
١	Ferri	cchloride, sewage grads, 100per- cent basis, 1.o.b. works, tank			$\Gamma_{I}$
.	Ferr	works ton 176	.00 25 .64	55.00	Н
` <b>\</b>		ic exalate, tech., gran., 50-lb. dm.,	.85	_	ľ
١		ic oxides (see iron Dxides). icphosphate, FCCg insoluble pow-			Ħ
- 1		der, dms, 10,000 lbs lb. 1	.10	1.15	П
	ren	nc pyrophospheie, soluble, puril., pearls, 50-lb. dmlb. 1 nc raelnate, precip., 8.75% Fe.	.t1	-	H
		dms ton lota m. BRQ D.	.45	-	1;
	Fer bgs		1.00	- 1	L
5	1	bulk, works	7.00	-	Gli
		green gran. 100 lb. dms., 2,000 lb. min., I.o.b. ahipping			
	20		2.00 f Denver	2.95	
ıer	Fe	ric-ammonium oxelete, fine gran., 250-ib. dms., 1.l., I.o.b. works.			
	١.	E	.42	-	G
	"	acelic acid, industrial grade,			1
	1	sodkum sait, soln., 4.5% Fe, 1.c., 1.1., 1.o.b. works lb.	.55	-	
	Н	agricultural grade, sodium salt solu- tion, 5% Fa, I.C., I. 1., I.o.b.	0.4		
	Fe	worksib. errous fluoborate liq. conc., dima., 1.I.,	.84	-	
	F	works, frt. equald	.64 2.25	=	
,	F	dms., dvdb.	1.17	-	
	F	arrous sutlets, moisi, bulk, 1.i. i.o.b.	30.00	-	
		hentshydrete, gran., bulk, t.l., I.O.D.	45.00	150.00	1
9	1	monohydrate, gran., bulk., t.l., f.o.b.	70.00	160.00	10
•	1	LISP gowd 400-lb dms lb.	.49	-	l
872	F	cryst., 250-lb. dms lb. ir oli, Canada dms lb.	10.00	-	1
81/2		Siberia, dma	12.75 .29	-	1
	1	kettle-bodled, lanks b. light, cold-pressed, drns., c.l lb.	.32 .34	.36	
	١.	lanks	.26	-	T
5	1'	protain ord., Dulk, 1.0.D. Al-	295.00	_	
	-	Lo b Gulf port ton	290.00	-	1
		Imp Chilean, 65% protein min., bulk, cl., tl., ex whee, l.o.b.	205.00		١
	١,	Attantic and Dull portston.	285.00	_	١
		equald	.70	-	١
	1	No. 12, bulk, same basis b.	.57 .58	.54 .74	١
	ı	No. 22, bulk, same beels lb. No. 113, bulk, same besis lb	1.05	1 14 .93%	.
		No. 154 bulk gama basis ID	1 02	1 08	١
•		Fluosilicic acid (see Hydrothuoshcic acid) Formaldehyde, 37% methanol free (un-	088	e .090	5
-	- 1	AA-A5% (1% methano) tenks,	10		
	- 1	divd			_
.46	- 1	37% (inhibited 11-15% methanol)	.09		
-	١	tanks, divd	39		11.7
-	ı	dms. sama basis	.44		
.90	- 1	works	.51		
-	١	Fructose, cryst., 16,000 kilos or more, dms	.90	1 03	
50	1	Europete acid 1000 Grada, DGB (.i., III.	.75	5V2 .77	V <sub>2</sub>
		equald Eb. tech. grade, bga., 1.I., f.o.b. irt.		.82	V2
-		equality Lob Certar Repids.	.7	5 ~	
.23		contract electric tanks, I.o.b. Memphis,			
.18 8.25	1/2	Tenn. and Omaha, Neb lb.	.,		
1.30	)5				
9.25		C			
_		U			
.4	В	<b>V</b> 1			
A		D sak, drns., frt. alid., †00% basis lki Gallic acid., 400-kilo lota		05 -	•
.1	714	Gatic scid, 400-kib kib Garic oil, dris., Egyptish, kil Deledn, edible, 100 AOAC test, dris	0 100	00 110.0	
-		14 4000		50 1.7 75 1.8	5
-		125 AOAC test, dris., Lt	b. 1.	85 1.9 95 2.0	5
_		175 AOAC test, Offis, LLL	b. 2	05 2.1 .10 2.2	5
-		225 AOAC test, dms.,l.U	b. 2	20 23	15
_		275 AOAC test, GRS., M.J.	b. 2	50 2.0	
		Gentian viciet (see Methylroseaniin Genatic), syn., 90-92%, dms.	O 64 114 1-4	9). 525 -	

# WEEK ENDING DEC. 26, 1986

- 11	WEEK ENDING DEC. 20, 11		
- 17	Blue, bone, extracted, green, jelly-		
- 1	grams, bga, c.llb.	-	-
- 1	85 jellygrams, bgs., cl., 1.0 b lb.	.88	-
1	115 jellygrams, bgs., c.l., t.o.b lb.	.79	-
- 1	135 jelygrams, bgs., c.l., 1.o.b fb.	.77	-
	164 jallygrams, bgs., c.l., l.O.b 10.	.79	-
- 1	192 jellygrama, bga., c.l., t.o.b lb.	.87	-
	220 jellygrems, bgs. c.l. 1.o.b lb.	.93	-
1.4	Glua, hkde.		
- 1	108 jellygrams, bgs., t.l., l.o.b	.80	
- 1	135 jellygrams, bgs., t.l., I.o.b lb.	.85	-
- 1	184 iaftygrams, bgs., t.l., f.o.b., ID.	.90	-
1	192 jellygrams, bgs., 1.l., 1.o.b	.95	-
	222 jellygrams, bgs., t.l., t.o blb.	1.00	-
- 1	251 jellygrama, bgs., t.l., f.o.b lb.	1.05	-
- 1	283 jellygrama, bg s., t.l., f.o.b lb.	1.10	-
- 1	315 jellygrams, bga., t.t., t o b, b.	1.15	-
- 1	347 jellygrams, bgs., t.l., l.o.b b.	1.20	-
- 1	379 jeflygrams, bgs., t.1., t.o.b lb.	1.25	-
- 1	4t 1 allygrams, bgs., t.l., 1.o.b lb.	1.30	-
- 1	444 lellugrams, htt8t.l1.0 D D.	1.35	-
- 1	477 John Same Das., U., 1,00., 10.	1.40	-
- 1	Glulamic add, 98/2% dms., 100-b.		
0 ]		6.55	-
. !	Glycerine, nat., reid , USP, CP 99Vr.		
0	Lanks cityd	89/2	-
- 1	USP, CP, nat. 95%, tanka, divd. 1b.	871	-
ı	Syn. 95%, tenka dlvd lb	88/7	-
- 1	Syn 99.5%, tanks divd	.91	-
- 1	Discine tage Amingacetic acid)		
. 1	Glyceryl qualacolate, 100-10 10 cms.		
6	f.o.b kilo	14 50	-
	Glycolic acid (see Hydroxy acolic acid)		
	Glyoxal 40% snin., bulk, tanks.		
	dud	4417	-
	Grapelruit od, Fla , drns lb.	3.00	-
	Calif., dms	3 00	-
	Israe'll	3 00	-
	Draphite, amorph, powd . bgs . dms .		
	DI DI WING ID	15	4
	cryst., 88-90%, powd , bgs , dms . ex whee		
	ex whise	.30	.6
	Graphile, cryst . 90-92° a, powd . bgs		_
54	dms ax wnso	40	.7
74	95-96% powd , bgs , ilins., ex		
14	in the second se	50	.5
931.	Quachite amorph . cryst., 97% and up.		
08	DOMO DOS COMO CA		
	u).co10	80	- 17
	Graphile, lake, No. 1. 90-95°a, bgs.		
.0905	dois ex Wilse . ID	65	
4000	Mo. 2, 90-95%, bgs, dms, de		
.1065	a mbro	65	
.1025	Drease (See Oils, Fais & Waves market	report	
.1025	Conservation of the servation of the ser		
.1080	Dueracol tech 500 lb dos , 24,0000		
.1000	min., 1.0 0 trainingiora.	0.70	
_	Conn	270	
_	Dustacewood oil dms ID	3 75	
_	Gunz our edible, bos., C.C. FO D	60	
-		50	
	Indust. bgs., high viscosity, c i		
1 03	same basis	.50	
		الالبنسو	
.771/2			

•		B.00	9 25
	Heliotropin, dms	B.OO	8 63
	Hemiock oil (see Spruce oil).	.55	-
	Heptane, Indust., lanks, 1.0.0. Beautiful Tex	1.07	-
	95%, lenke, I.o.b. Houeton,	1.16	_
	Texgal.	.85	-
	Heptanoic acid, syn., tanks, 1 o.b.	.4312	_
	i-Hexadecanol, syn., tanks, l.o.b b.	140	
	Hexahydrophthalic arrhydride, tech. dms., I t.l., I.o.b. works b.	1.42	-
	Hexamethylenetetramine, gran. bgs	.55	-
	c.l., t.l., workstb.	.59	_
	gran. dans., c.l., 11., works lb.	.60	_
	pdr. bgs., c.l., t.l., workstb	.63	-
	powd.dms, cl., tl., works lb	1.01	1.15
	Hexane, indust , tanks, works 981. 95%, tenke, I.o.b. Houston,		
	Texgal	1.12	
	l-Hexanol, syr., tanks, l.o.bb.	.50	٠ 🕶 ٠
	I LIA I AGOODO! MIXAU IBUUNO! WI		
	looks	.32	
	ha Mayed melhactvisia, ams., Gil.,		•
		.751/2	
	Hamileon object (BPMS, CRVI)	.50	•
	LIAVIDEACATANA USP. OITE., 2270. NIO		
	OF MOOR IT RED	30.00	
	Hamatookka hydroheamide, USP, 10°	40 ad	11.30
n	100-07 108, 008,	10 25	11.00
•	1 . I	9.70	10.70
•:	AER AT MIR DOWN WA-	25	.28
	I	- 20	
٠.	I sendentine hurrette, dom. Iste ""	1.54	
	Hydrazina nyotati. b.		-
	66-gal, dma., Li., frt. ald lb.;		4
0	Hydriodic sold, puril., 47%-57%, 2-	7.50	
V)			1150
Ÿ.	Hydrosbietyl sicohol, lech., solid.	.65	
, ′	tanks, I.o.b. zone 1	.80	yart 🛥 🖯
**	tanks, I.O.D. 2019	100	أعن زيان

1.40 3.15 3.40 25.00 2.10 2.10 2.10 Zanzibar ..... Madagascan . CHEMICAL MARKETING REPORTER

2.50 2.50 3.85 3.68 5.50 6.85 20.00 400.00

7.40

6.50

26.00

Citric acid anityde, powder bc. higher
Citronella oit, Java, dms. Ib.
Chine, dms. Ib.
Citronellal, 25-lb cana Ib.
Citronellal, 25-lb cana Ib.
Citronelly scetate, dms. Ib.
Citronelly formate, 25-lb cns. Ib.
Citronelly formate, 25-lb cns. Ib.
Civet, artif., bote. Ib.
nat. Ib.
City ball, dom, air ficateri bos. C.

December 29, 1986

Cryolite eyn., bulk, c.l., works ... ton: 810.00 550.00

.58

tenks same basis December 29, 1986

Deranyl acetate, drms. b. 10.95
nat., drms. b. 10.95
nat., drms. b. 8.60
Gesrayl formate, syn., dims. b. 8.60
net., drms. b. 15.98
Gilsonites, 8.p., bulk, c.l., 1.o.b. Bonenza, Utah ton
selects, same basis ion
selects, same basis ion
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180. Hydrobronia scid, 48% circs. CJ, IJ., 36%
Lo.b., b., 36%
Hydrobrioria scid, annyd (see Hydrogen chloride) CHEMICAL MARKETING REPORTER

# WEEK ENDING DEC. 26, 1986

Hydrochloric acid, 20° Se, tanka, Guilt Coast ton
Wast Coast ton
22° ackd, same basis, East. ton 22° acid, same basis, East. ton 68.00 76.00
Midwest lon 68.00 70.00
Guif Coast ton 63.50
West Coast lon 100.00 116.00 NOTE: Prices vary and ere either freight collect freight aqual

fixed depending on producer and location.

Hydrocortisone scalete, micronized, dris., 26 kilos or more. gram. Hydrocortisone, alcohol. micronized, dris., 25 kilos or more. gram. Nydrofluoric acid, anhyd. (see Hydrogen Hydrofluoric acid, aqusous., 70% tenks., f.o.b. 1rt. yoronicosaca ass. 18-gat. cinis., E.i., works, 30% basis....... ton tanks, 100% basis, works..... ton 190.00 210.00

Hydrogenbronide, snihyd. cyls., extrs., 30,000-bs., 1.o.b. works. . b. 7.00
Hydrogenchioride, snihyd., 50-lb, cyls., c.l., works.........b. 600-fb. cyls., c.l., same basis...lb. Hydrogen chloride, enhyd., tube trailers, saller's treller, min.

100,000 bs.s year ... ib.
tube trailers, buyer's trailer ... ib.
Hydrogen chloride anhyd., tenks,
works. Works.....ton 270.00 Hydrogen cyanide, fig., 99.5%, tanks, .6875 Hydrogen peroxide, 35% tech., tanks, works, it. equald.......b. 50% tankcars, frt. equald.......b.

70%, tenkcars frt. equald. . . . b. Hydrogen sulfids, liq., 99.25% min. seller stanks, works....b. 170 lb. cylinders.......b. Hydroquinone, photo grade, consum-ers. c.l., l.l., divd. ... ib. lech., dms. c.t., divd. ... ib. 

Nydroxygitronellal dimethyl scalol, p-Hydroxydiphenylamine, dms., t.i., 16.55 t.o.b. works ......b. 13.60 14.80 9.50 2.07 2.12

notural, dms. b.
puro, dms. b.
extro grade, dms. b.
extro grade, dms. b.
syn., dms. b.
hydroxyethyl cellulose, t.i., dMd. b.
Hydroxyethyl methylcellulose (visc.
5.000 through 45,000 cps.) 50
lb. bags, t.i., c.i., 30,000 lb.
min. dVd., zone 1 b.
Hydroxypropyl methylcellulose, premium, U.S.P. (visc. 4,000
through 15,000) 50 lb. bags,
t.i., c.i., 30,000 lb. min., divd.,
zone 1 b. t.i., c.i., 30,000 fb. min., divd., zone 1 ... b.
Hydroxypropyl methylceliulose, U.S.P. (visc. 50 through 100 cps) 50 lb. bags, t.i., c.i., 30,000 fb. min., divd., zone 1 ... b.
Hydroxypropyl methylceliulose (visc. 4,000 through 15,000 cps) 50 lb. bags, t.i., c.i., 30,000 fb. in., divd., zone t ... b.
Hydroxypropyl methylceliulose (visc. 4,000 through 15,000 cps) 50 lb. bags, t.i., c.i., 30,000 fb. in., divd., zone t ... b. 2.87

Givd., zone t .... b.
Hydroxypropyl methylcellufose (visc. 50 through 100 cps) 60 lb.
bags, I.t., c.l., 30,000 lb. min.,
divd., zone 1 ... lb.
8-Hydroxyquinoline (see Oxyquinoline)
Hydophosohorous acid., puril. 60% 2.17 nosphorous acid, puril., 60%, dms.cl., works .....b. 8.15

2.99

4.25 4.50 3.00 25.60 more, i.o.b. works...kilo lodine, crude, dme...kilo 17.50 13.50 14.21 22.00 18.00 14.59 lodine Cruse airis. Killo 13.50 lodine USP. lb. 14.21 lodochlorhydroxyquin, USP, XVI 50-killo dms. 100-499 killo, fri. alld. killo. 35.00 lodoform, NF, dms. 300-lbs. f.o.b. works b. 24.00 24.00 18.20 13.10 25.00 works.....b. a-ionone, dms. b. 

2.00 CHEMICAL MARKETING REPORTER

2.70

2.15

iron, puril., powd., pails, 10-100-b. fron oxide, brown, syn., bgs., c.l., frt. t.L, works, light. . . . . . . . . b. other chedee, bes., c.l., fri. 1.15 sobutyl acetate, solvent grade, tanka, pobutyl isobutyrale, tenko, f.o.b. Isobutyi phenylacetate, dms. . . . fb. Isobutyi saloylate, dms. . . . . lb. Isobutyraidehyde, tech., dms., c.i., dívd.....lb. 5.80 isoniazid, powd. . . . . . kilo 1 isonicotinioacid, hydrazina (see isoniazid). teononyl alcohol, dms., t. l. . . . . b. iso-octyl alcohol, tanks, divd. . . . ib. ophthalio scid, 99%, bulk, f.o.b., Joliet, II., min. frt. alid. . . . ib. isophthalonitrile, bgs., t.l., works. . . ib. isopropyi acetste, lanks, dvd. . . ib. isopropyi alcohol, anhyd., 99%, tanks, olivol....gal. refd., 95%, tanks, divol, .....gal. opropyl myristate, dms., I.I., E. . . lb. 1.19 aconic acid, retd. bgs I.I. . . . . lb. 1.45 Jacki, pasta, dms., works, 100% be-5.50 producing point . . . . . gal. 30.00 Juniperberry oil, kallan . . . . . kilo 115.00 Keelin, woter washed, fully calcined, bage c.J., t.o.b. Georgia . . ton NF pwd., celloidel, bacterie con-trolled, 50 lb. bags., 5,000 lb. (solin, uncatcined No. 1 coating, bulk, c.l., f.o.b., Georgia . . . . . ton C.1,10.D., Leorgia ton
Ho. 2 coating ton
No. 3 coating ton
No. 4 coating ton
filler, gen,i purpose, same ba-73.00 cined paint grade 1 micron svg. same basis....... ton dry-grd. siriloated soft, same beals.....ton Karoya gum, No. 1, powd., bbls...lb. 60.00 2.25 1.95 .52 Lacquor diluent potroleum, 140F.200F. b.f., I.o., New Jarsey
and New York ... gal,
Houston, Texas ... gal,
Lacquar diluent, petroleum 200F.240F. b.r., 1ankcars, New
York and New Jersey ... gal,
Houston, Tex ... gal,
Lactic acid, food grade 88%, I.o., I.o.b,
works ... lb 1.25 1.29 1.20 1.12 1.25 1.06 .62 1.03

.22

December 29, 1986

Lake C, red toner. (red 53) bbis., frt. Uthlum hydride, c.l., t.l., divd. 10,000 or Lanolin, anhyd., coamailc. 400-ib. Lilhium hydroxido, monohydrate, dms., c.l., t.l., dvd.......b.
Llihium hypochlorite, c.l., t.l., works.lb.
Uthium melal, t,000-lb. lois or mors, dms., works. . . . . lb. pharma ceutical, 400-lb. dms. 1.18 .lb. 1.15 tech., (under 2% l.f.a.), 400-b. Lithium nitrate, tech., dms., 100-lb. Lithium stearets, bgs. c.l., frt. efid. b. Lithium suleste, snhydrous, t.l. divd. fb. Uthol red toner, berturn, dms., frt. tanks, same heele prime, burning, dma., c.l., same ba-sis, Chicago. . . . . . ib. prime, burning, tanks, same be-NOTE: 300 Mt. Rad. 114c. rigner, except i Coset, 3c. higher.
Laurelleeves, Turkish......ib.
Laurent's acid, drums, Lo.b....ib.
Laures acid, comf., pure bgs., c.l...ib.
Louric selenyde (aidehyde C-12). 7.75 -Lauryl methacrylate, dms., c.l., t.l., avender flowers, ord. . . . . . . . . . . . . b. .75 .90 1.16 Aace, Eest Indian, sittings, . . . . . b. 40-42%, ester, crs. b. spike, Spanish, dms. kilo Lead acetals, purif., fiske, 400-lb. Sieuw #2 ...ib. 5.90 6.00 Magneela, tech., light, neoprene-grede, bgs., c.l., t.l., works lb. .76 .81 dms., works. . . . . . . . . . . . . b. tech., flake, f.l., 400lb. dms., dms., t.L., works. . . . . ib. Lead fluoborate, fig. conc., dms., t.l., works, frt. equald. . . . . . lb. lagnesium bromids, 80-lb. dms., hex-Magnesium bromide, 80-lb. dms., bexahydrete ... b.
Megneelum carbonete, light, tech.,
bgs., c.t., t.l., works, Iri.
equeld... ... lb.
USP, lite bgs., c.l., same basis... b.
USP, heavy, bgs., c.l., same basis... lb.
Megnesium chloride, onhyd., 62%,
lieke or pebble dms., c.l.,
works... b.
Megnesium chloride, budgers 66% f.c.b. works.....ib. coarse, bgs., c.l., same basis...ib. Leed naphthernate Rq., 24% Pb. dms., t.l., works. . . . . ib. Lsad peroxide (see Lead dioxide). Lsad red, 95% Pb<sub>3</sub>O<sub>4</sub>, or less, bgs, c.l., works between the control of the con works. . . . ib. Megnesium metel, 99.8%, ingols, 10,000-lb. lots or more. I.o.b. ret. dms., I.c.I., works. . . ib.
unbleached non-ret. dms., I.c.I.,
same basis. . . . . ib. edible, tech. bleached, non-ret., Magnesium ellicate (see Telc). Magnesium ellicofluoride, bgs., c.l., t.l. eame basis. . . ib. oli, Argentina . . . . kik 9.50 emongrass oil, Indian, dms. kilo Gustemsian, dms. ib. di-Laucine, dms., 1 kilo works. kilo 90.00 gran., bis... powd., bis... fonate).
Umo, chemical, pebble (quicklime), bulk, 50,000 lbs , works, f.o.b. bgs., t.l., works b.
Magnesium triellicato, USP, powd., fb.
dms. 8,000-lb. lots b.
USP, micronized powd., dms.,
376-lb. lote b. 45.00 -Limonane, dms. . . . Inalcol ex bois de rose oil, dms. tb.
syn., 98-100% dms., f.o.b. works. tb. lool oxide, syn., 55-oal, dm Inalyl acetate ex bols de rose oil, 90-21.00 inalyi benzoata, syn., 55-gal dms. ib. Linelyi cinnomote, syn., 55-gol. Manganese aceteta, dhydrata, cirs., divd. b. tetrahydrata, cirs., t.l., divd. b. Linelyi formete, syn., 55-gal.dms...ib, Manganese borste printing ink drier.lb.
Manganese borste, tech., dms....lb.
Mengenese cerbonete, chemicel
orade, 48% Mn. bgs., 20,000lb. lots or more, works....lb.
Mengenese chloride, anhyd., dms.,
20,000-lb. lots or more...lb. 6.50 6.55 

4.12

3.49 2.95 5.12

inese reginate, fused, 31/2% Mrs. 3.02 .86 .81 Egyptian. ib. .81

Egyptian. ib. .81

MBT (see 2-Mercaptobenzothiazole).

MBTS (see Mercaptobenzothiazy) disulfide).

MBTS (see Mercaptobenzothiazy) disulfide).

MBTS (see Dehenytmethane 4.4, -di-taocyanete).

MBTS (see Dehenytmethanete).

MBTS ( buk, GL, t.L. same basis . .12 .13 6.50 9.00 Mercuric chloride NF, gran., powd., 100-lb, dms., I.o.b, works., ib. 7.00 yellow, NF, 100-lb. dms., eame be-7.00 sis. Ib. tech. 100-ib. dms., same ba-els. Ib. Marcurous chioride (see Calomel). 5.50 18.00 4.50 Methienins hydroxyenstogue, dry. 86% activity t.l., frt. elid. . . . ib. liquid, 88% activity. t.l. trt. ret. dms., t.c.t., same be-10.00 Msthyl ecetoecetate, East, divd. bulk. fb.

Methyl acrylete, tenks, divd. fb.

Methyl acrylete, tenks, divd. fb.

Methyl anyl elcohol, tenks, divd. fb.

Methyl - emyl kelone, iks., divd. fb.

Methyl - emyl kelone, iks., divd. fb.

Methyl enthrenilete, tech., dms., fo.b. fb.

Methyl benzate, dms., ii. fb.

Methylcetidose, premium, USP (visc.
400 through 4,000 ops) 50 fb.

bags, ii., cl., 30,000 fb., min.,
clvd., zone 1. fb.

Methylcetidose, premium USP (visc.
15 cpe) 50 fb. bags, ii., cl.,
30,000 fbs., divd., zone 1. fb.

Methylcetidose, (visc. 400 through
4,000 cps) 50 fb. bgs., ii., cl.,
30,000 fbs., divd., zone 1. fb.

Methylcetidose, (visc. 15 to 25 cpe) 50

fb. bage, ii., cl., 30,000 fb.
min., divd., zane 1. fb.

Methyl chloride, indust. bulk, tanks,
I.o.b. works. fb.

Methyl chloriorotorm (see 1, 1, 3-Trichloroethy 2.73 2514 Methyl property consenses, diss.

Methyl property is a consense of the Methyl eugenol, 25-th. Cns.

Methyl eugenol, 25-th. Cns.

Methyl lormete, pure, non-ret. dms.

works.

Links, seme basis.

Methyl property is a consense of the consens 3,80 tech, tanks, works ... b.
Methyl heptanol, eyn., 55-gal. dms. lb.
Methyl heptanone, purs, dms. ... b.
Methyl heptanoses, dms. ... b. Methyl isoamyl ketone, tanks, divd.

E. D. 5.

Methyl isobutyl carbinol (see Methyl smyl alcohologyl ketone, tanks, divd. b. 38

divd. zone 2 (Celif.). b. 36

divd. zone 2 (Celif.). b. 36

divd. zone 3 (W. of Rockles, excluding Celif.). b. 8.60

Methyl isoeugenol, 25-lb. cns. b. 8.60

Methyl nephthyl ketone, cryet., dme. b. 41

Lob. 6.00

Methyl parathior, tech., 80%, dms., frt., ald. E. B. 1.85

Methyl phenylacetate, dms. b. 3.80

Methyl phenylacetate, dms. b. 3.80

Methyl phenylacetate, dms. b. 1.32

dms., cl., (Li, same basts. b. 1.40

Methyl coesing chioride, USP, 1-lb.

Methyl roseenfline chioride, USP, 1-lb.

Methyl roseenfline chioride, USP, 1-lb.

Methyl violat (see Methyl roseanfline chioride).

Methyl violat (see Methyl roseanfline chioride). 10.40 1,65 3,80 : 5,40 1.94

22.70

.12%

.75

.22

.32

.80

1.05

.81

Methyl violet toner, tungsleted, PTA, bbis., same basis. . . . . lb. 4,4,-Methylene dientline (p.p-di-sminodiphenyl methene) Naphthol gryfida red toner deep 4.70 5.20 crude, drns., t.l., l.o.b. . . . . Rb. 1.75 2.25 puril., fiake, same basis...b. 2.25 ethylene di-p-phenylene di-isocyanate (see dipher 4,4, di-isocyanate). 4,4,-di-isooyanate).
Methylene chloride, tarks, 4,000 gal.min., consumers, divd...... b. .35
Methylpartanediol(see Haxylane glycol).
Methylprenylpryszokne (see 1 – Phenyl-3-methyl-pyrez e-Methylstyrene, f.o.b. shipping pt., lb. p-Methylnaphthelene, bulk, works, gal Methylirkonine chloride (see Methylene b laminating grades, FOA, tanks, Mineral spirite, petroleum, odoriess, tanks, New Jersey. . . . . gal 1.83 1.76 tanks. New Jersey . . . . . gal. 1.41 Houston, Tex..... Molybdate grange, bbis.... alyodette erange, all, com.t., powd., alyodenum metal, com.t., powd., 99.8%, dms., works. . . . b.
Motybdenum trioxide, CP, dms., works, 24,000 lbs. or more.b. tech., chemical, dms., 24,000 lbs. or grade, min. 13% N. 52% P. bulk, c.l., t.o.b. Fis. Monoethylamine, 70% aqueous tanks, int. prepaid, 100% basis... ib. griyd, tanks, same basis... ib. tanke, same basis... dom., Cett., bgs., c.l., 1.l., 1.0.. shipt. pt. b. st. b. refd., dom. Caff., same besis. b. lb. Morphine alkakok, NF, 25 k lots. kilo sto., 1.02 karks, frt. alkl. E. b. tanks, frt. alkl. E. b. Muristic acid (see Hydrochtoric acid). Musk. syn., ambette, 25-lb. crs. b. 8.25 9.50 Musk. syn., ambretle, 25-fb. cris. Ib.
Musk. syn., ketone, dris. ib.
Musk. syn., xylol, dris. ib.
Mustard cil, syn. (see Allyl Isothiocyanate)
Mustard seed, Brown No. 1 lb.
Canadian No. 1 Yefow lb.
Oriental No. 1 bgs. lb.
Myrcis oil (see Bay oil).
Myrtistic acid, comil., pure, t.l., bgs. lb. Naphtha, high solvency (see Solvent naphtha, petroleum).
Naphtha, petroleum, cleaners (see Cleaner's naphtha).
Naphtha, VMSP, petroleum, tanks.
New Jersey and New York. 1.84 1.29 1.20 New Jersey and Yes gal.

Houston, Tex. gal.

Nephthelene, crude, dom., 78°, tanks, b. Nephthelens, grude, dom, 78", tanks, works. b.
Naphthelens, phthelio antydride grade, tanks, works. b.
Naphthelens, petroleum, 80°C, f.o.b. b.
Naphthelens, reid, bells, flakes, whole a alers, jobbers, driss, b.
Naphthelio add, crude, bulk, works h.
refined, 220 add, same bass ib.
s-Naphthol, goth, flakes, 80 lb. bgs., 0.1, works. b.
b-Naphthol, soft, flakes, 80 lb. bgs., 0.1, works. ib. .22 .23V2

mine, tanks, t.o.b. 1-Naphthylamine-S-suffonic acid (see Laurent's acid).
2-Naphthylamine-4,8 disulfonic acid (see Cassella acid).
2-Naphthylamine-1-suffonic acid (see Tobias acid).
Neatsfoot oil, 20°F, 1.1., 1.0.b. works. 30°F, t.L., f.o.b. works . . . . . . higher and West Coast So. higher. omycin suffate, USP, non-sterile, Nerol, tech., dms. perf. grade, dme. lb. Neroli ofi, Tunksan, bots. kilo 2, Neroli ofi, Tunksan, bots. lb. Nerolin, Bromein. kilo Niscinemide, U6P, t.1. dms. kilo Niscin NF, dms., 5,000 kilos or more, divd. kilo dlvd. kilo feed-grade, 98-99.5%, bgs., same basis. kilo Nickel acetate, dms., 5,000-lbs, to t.L. Nickel fluoborate, fq. conc., dma. t.l., o-Nitroaniline. flake, dms., works molten, refd., tanks, works molten, tech., works ..... teroanifine, orange toner, bgs. Nitroaniine, dms., c.1., t.J., 30,000 lb. min., works .... Ib.
Nitroanisole, 100-kilo lots ... kilo
kirobenzens, tanks, I.o.b ... Ib. trobenzene, tanks, I.o.b . ochlorobenzene, dms., tenks, same basis
2-Nitro-p-cresol, tech., dms., t.i.,
alid.
Nitroethane, tanks, dwd. E... rogonous sewage sludge, proc-esad, bulk, i.o.b. 2-Nitropropane, tanks, frt. alid. E. .. lb. m-Nitrotoluene, tech., dms., frt. alid. lb. o-Nitrotoluene, dms., cl., l.o.b. .. fb. .49 

Ochre (see fron oxide, yellow, nat.)
Ocotes cymberum of dras. kilo
Ocotes, Chinese 90%. kilo
1-Octadesenol, syn., tanks, Lo.b. lb.
1-Octadesenol, syn., tanks, Lo.b. lb.
1-Octade, syn., tanks, Lo.b. lb. 5.15 5.40 .4312 .70 1.40 n-Octyl, n-decyl phthalate, tanks, (b).
tert-Octylamina, dms., c.i., t.i., works.
Octylphenol, mollen, t.o.,
works. Oldicica oil, fig. dintal..... 50 44 49 41 Ciecce de, ed, dries.

tanks
Cielo sold. dol. dist., (white), dime... to,
tanks... ib.
Cielo sold, s.d. (red) dime... ib.
tenks... ib.

# **PRICES**

WEEK ENDING DEC. 26, 1986

Į	WELKERDING DEG. Eg.	1400	
ĺ	Oleum (see Sulfuric e cid, furning).		
١	Ofibarum gum, tears, bgs Rb.	2.10	-
ı	Olive oil, edible, Spanish, dms 6 al.	8.00	_
ı	Italian B-type	5.35	_
ı	Olivine, crude, works Ion	12.00	-
ı	20 mesh. works ton	15.00	-
ı	100 mesh. works ton	20.00	-
ı	Oplum. USP. gran. powd. 25-kilo	20.00	
1	latskilo	125.00	-
ı	Orange oil, expressed, USP, Coll.,	120.00	
1	dns., Lob. plant 1b.	1.20	-
ı	expressed Valencia, dms lb.	.75	_
1	Calt., dist., cris. t.o.b. plant lb.	1.25	
1	Plorida, dms	.60	.65
-	Provide Unis.	.90	_
1	Braziliankilo West Indian, bittor, NF X, cne.,	.20	
1	dms	13.00	_
1	Orange peet, bitter, Heitlan bis ib.	.38	_
	Orange peer, ditter, maintain tra	2.60	-
-	Oregano, Greoca, 30M	2.80	_
3	Turkeyb.	1.05	_
	Mexico	35 00	_
	Origanumoli, Spanish, cns kilo	4.00	_
	Ords root. Florentine, bls lb.	4.60	5.00
	powd., bbls., bx8lb.	3.00	-
	Verona ble	4.60	5.00
	powd., bbls., bxs	3.25	3.35
	Ouricury wax, refd., puro, bgs tb.	44	-
	Oxelic ecid, bgs , c.l., works	77	
	b-Oxynaphtholc acid dms. works,	2.65	_
	techIb.	2.03	
	Oxyquinolino base, pure, 1,000 lbs.,	8 00	-
	in old	2 00	
	Oxyquinoline sulteto, 100 lbs. trt.	4 00	_
	L RIG	7 00	

l				
D	elledrummetal, works . Troy-oz 11	8 00	_	
P	alm od, jsee Oils, Fats & Waxes Market Re alm oil acid, dol-dist dms lib	porti 311:	_	
М	tanks ID.	.30		
	5 d , dm5	.42 35	.45 -	
P	alm kernel od, bulk, ctt., US			
		181.2 31 00	33 00 33 00	
F	Palmilio acid. 90%, tech . hags 1b.	53	-	
	tooks	51	-	
	Papevenne hydrochloride, NF pawd . imp. bulk kilo	56 00	-	
F	Panrika Hungerlan, I 00 AU ogs 10	80 90	_	
	Spanish, 110 AU bgs Pareltin luly-reld , 127-130 F., ASTM,			
•	tanks rafy	.29 .33\1	35 39	
	130-135 F. ASTM. tanks. refy. 140-145 F. ASTM, tanks. refy.	35	41%	
	150-155 F., A5 IM. tanks, 1919	.4 t √a 19	46	
l	sleck wax, 5% cal, tanks refy 12% oil, tenks refy	21	-	
l	20% oil, lanks rely  AMP temperatures are an arbitrary 3F ha	16 sherthan	ASTP.	
l				
l	g5%, powd. bgs .c t 1 l. dvd. b Paraidehyde, tech .98%. 55-gal dms	29' z 39' z	-	
l	Paraldehyde, tech , 98%, 55-92i dms	_		
١	II OIYO E	.7612	_	
l	tanks, dvd. E	.58% 1. <b>75</b>	-	
Į	Parothion mathyl (see Methyl parathion).	3.75	_	
ļ	Para toner red, bbls	3.75		
١	Construct of Indonesian data No	1850 19.00	20.00 21.00	
I	Paterson of LICO/con Andres kerne	toil).		
l	Peanut med (see Ois, Fsts & Waxes ma Peanut oil (see Ois, Fsts & Waxes mark	Tratiano.	ւր.	
Į	Pectin dom., NF, Citrus, powo., 100-		3.70	
١	Kijo kija Gavo.	3.30	3.10	
ı	ald	.70 70	_	
	alid			
	bison-unit lots bisonunits	25.00	30.00	
	Penicilin, proceine, sterile 50- billion- unit lots, bulk billion units.	36.00	-	
	Pennyroyal oil, dms	10.25	-	
	Pennyroyal oil, dris	.55	-	
ı	Penteerythyttol, tech., bgs., c.L., t.o.b., b.	71	.72	
	Penterylinitol, de and tri-somers (se	e Dipenta	BEYTHING 8	HIC
	inpermental adequists til dets.			
	Panisaryunto trias 100 lbs. or more.	1.50	_	
	Pentoberbital-sodium, dme., 100 lbs.	7.00		
			-	•
	Bortstone Letrazol, NF. dms., 200-kgc	32.00		::
	Pepper, black, Bruzillan, bgs lb	2.48	) · · · -	٠.,
	Lampong, bgsb	2.48 2.48		• •
	Lampong, bgs	2.5		
	Peoper, red Chinese Fukien rice bgs its Haimen, bgs.			
	Line tos.			
	I leafast St.4 box			
	Pakietan, dundicuts, bgs	29 20	5 =	
	Peoperment of Madras	14.0	0 -	
•	Milemette	4. 1913		

December 29, 1988 CHIMICAL MARK STINK REPORTER

syn., dms, f.o.b. works Brazilisti Chiracos

9.00

# PRICES

	,				_	_
A			Phihalocyenine blue toner, weter dia- persable, bbis., aame ba-			Po
CHEMIC	a V		als	9.45 1	7.30	Po
CUEINIL	<i>1</i> H		bbis., int. alld. E. of Rock- iesb.	9.30 1	4.00	Po
<b>PRICES</b>			Phthalocyenine green tonar, resinsted. bbissame basisib.	8.85	9.46	Po
DRIGE		ĺ		8.61	-	Po
LUIATA	•		Pieric acid, pure pasta, 25-lb. ctns., c.l.,	2.91	-	Po
WEEK ENDING DEC. 26	1096	[		8.00	-	Po
	, 1300		tech., paste, 25-lb. cins., t.l., drybs- sie, 1.o.b. Charlotta, N.C lb.	5.00	-	
Perchicroethylene, dry cleaning grade, distr., tanks, divd lb.	.28%	-	Pilocarpina hydrochloride USP.	2.20	-	۱ '
indust., grade, consumers, tanks, dvdib.	.31	-	dms	3.90	0.00	
Periacid, dmsib. Parmenent red 2B, (red 48), calcium	2.55 5.25	•	Pine oil, 80% min. alcohol content,		3.00	Po
sairs, dms., frt. aild lb. bartum saits, same basis lb.	5.25 3.25	-	dme., c.l., 1J., sama		4.00	Po
Peru baissm, 1.o.b	5.00	Ξ.	a-Pinene, perfume grade kilo tech. grade	1.62 .18	.23	١,
c.i., refy	.365 .300	- 1	b-Pinene, perfumery grade. tenks kilo tech. grade. tenks	2.30 .35	.40	ן <sub>ב</sub>
USP, soft white, dms., c.l., refy fb. tanks, rely	.385 .300	-	Dinerazine enhad does II in alld	1.80	_	Po
USP, lily white, dms., c.l., ralyb. Petrolatum, USP, Lilly white, tanks.	.860	-	Piperazins citrate, 39%, dma., 1,100-		2.35	
refyib. USP, cream, dms., c.l., refyib.	.295 .355	= [	Piperezine dhydrochlorida, 53%,	2.00	-	Po
tanke, refy	.290 .340 .275	Ξ :	Piperazine hexahydrate, 44%, dme.,	1.60		Po
tanks, refy	.335	-	Piperazine phosphate, 42%, dms., 1.t., frt, elid.,	1.80	-	Po
tanks, rsty	270	,	Piperidine di st. 98% min., drns., c.l., t.l., works	6.92	_	Po
con1 HMW, bulk, works1b. MMW, same basis	.4834 .49	.49	Platinum, metal, works Troy oz. 48	5.00 6.00	-	Po
LMW, same basis ib. Prices for 51% sulfonic content 2a pe	.49	.481/4 r on corre-		1.84	1.86	Po
sponding molecular wta. Phenacetin USP, powd., 200-lb. dms.,			Polyester rasin, unsaturated, g.p., or- thophthalic, bulk, tankcare,			Po
1,000-lb. lots, divd lb. 100-lb dms. 1,000-lb lots, divd. lb.	2.20 2.22	2.45	isophthailc, same basis ib.	.51 .56	.63 .62	Po
Phenetione, dris., c.l., l.o.b lb. Phenebarbital, USP, dris., 500-kiro	2.00	-	Polyethylena resin, high-density, blow molding, g.p., hopper cars, irt. alid	.44	.52	Po
Phenobarbriel-sodium, NF, 500-kilo	19.50	- 1	Injection molding, g.p.,hopper care, irt. eld	.43	.46	'`
Phenol syn tanks, int. equaldto p-Phonolsullonic acid. 65% sol'n.	27.00 .25	.29	axirusion, g.p., hopper care, sama basis	.47	.48	Po
dms., c.l., lob works lb. tarks, same basis lb.	.84 .58	-	wire and cable, net., hopper cars, same basis	.64	.65	
Phenothiazine, indust. grade, 50-ib. bags, c.l., Lo b. works ib.	2.33	_	wira and cable, black, seme ba- sis	.65	.75	Pe
punt grade, seme basisib. Phenyl ecetate, dms., 100-lb. lots.	2.69	-	Polyethylene rasin, low-density, film liner, hopper care, frt eild lb.	.35	.36	Po
worksib. Phenylacetic ecid, pura cryst., 25-ib.	1.04	-	clarity film, hopper cers, irt.,	.35	.37	
cns	4.50	- 1	pallet shrink film, hopper cars, earne basis	.35	_	Po
I-Phenyi-3-carbethoxy pyrazolone-5.	84.00	-	same basisb.	.38	.42	Pe
dris. 200-fb. lots, drvd. E fb. m-Phenylanediamine, cas), dris., cl.,	3 45	- 1	g.p., hopper cars, eeme basis . ib. Polyethylene linser low-density g.p.	,37	.36	
11.,1 o.b.works lb o-Phenylenediamine, llaked, dms., 1.1, 1.o.b. works lb	2.07 3.25	_	blown film resin	.36 .40	.40 .431/2	
p-Phenylenediamina, liskad, dms., t o b. works	4.00		cast film resin	.40	.45	
Phenylephrina hydrochlorida, USP 100-kilolotacrmore, kilo.	175.00	185.00	tion molding, g.p., hopper cera, same basis ib. lins wire, CATV, power cable ib.	.45 .70	.48	P
Phanylethyl acetala dmsb. 2-Phanylethyl elcohol, NF, dmsb	3.35 2.10	2.20	whre and cable thermoplastic high- voltage, natural color, same	.,,	1.15	1
b-Phenylethylamine, dms., 30,000 lbs. or more, fn. alid lb.	1.60	_	besis	.80	.90	,
Phanylethylphenyl scatata, 25-lb. cnslb. Phenylglyconic acid (see Mandelic acid).	5.50	6.90	t4% carbon black, same basisb.	.68	.73	Ι΄
Phenyihydrazina. 99% min., dms ib. 1-Phanyi-3-mathyi-5-pyrazolona.	3.50	-	Wire and cable jacketing, black ib. Polymyxin sullate, USP, butk, 50-billion	.80	.81	
dms., 250-lb. lots divd. E lb. o-Phenylphenal, dms., t.l., works lb.	1.60 1.35	2.00	units min million units Polyoxyathyfene sorbitsn monos-	.52	-	١,
p-Phenylphenol, bgs., I.I., 40,000 lbs. or more, works	1.85	-	tearate, dms., 20,000-fb. lots, works	.73	-	F
Phenylpropanolamine hydrochloride, 100-kilo dmkilo	24.00	28.00	dma., 20,000-lb. lots, worksb.	.73		\ F
Phenylsakcylėla, punil. cryst., dms.,	2.76	-	Polypropylene reain, homopolymer, g.p., net., t.l., lrt. alidlb.	.46	- .48	l
tach cryst. E	2.25 2.35	Ξ	copolymsr, med. impaci, netb.	.60	.68	F
elid	1.95	2.05	high impact, sama basis b. Colored material 6c. per ib. higher for	.53	.80	١,
quantities, works	.55	.87	Polystyrene rasin, cryst., nat., hopper			
of mine washed, 86-68% b.p.l. bulk c.l. mines ton	23.15	٠ _	cars, irt. ald	.48	-	ŀ
vesse, Tampa, same basis ton Phosphoric ecid, com'i. and tach.	28.00	-	sis	.51	-	
gradea, 76% janka, works 100 lbs.	29.00	-	cars, same basis ib. expandable baseds (EPS), pkging greds, 1,000-lb. lots ib.	.52	-	Ţ
90% tanks, works 100 fbs, 85% N.F. tanks, I.o.b. freight	31.00	-	modified, same basts	.89 .78	-	
equald	33.50 <b>yrade</b> .	-	medium viscosity, bgs., t1., dwdb.	1.00	1.05	1
52-54% a.p.a., lanka, worksunit-ton	3.10	_	jaruany nydrotyzed, medium viscos-	1.05	-	
super, min. 70% a.p.a., sama basisunit-ton.	3.45	_	Polyvinyl chloride resin, g.p., homo- polymer dispersion, bgs., t.l.,			1
Phosphorus, while (yellow) edild dms., c.l., worke, ht. equaldlb.	1.00	_	g p. suspansion, bulk, same be-	.50	-	-
tanks, works, 1.o.b. works lb. Phosphorus oxychloride, lanke, 1ri.	.91	-	pipe grada , bulk, same basia jb.	.38 .47	2	
Phosphorus peniaeuilide, powd.,	.40	-	lim grade, bulk, same basia ib. Polyvinyl chloride, g.p. copolymer dis-	.37	.47	
dms., c.l., works 100 lbs. tota bins, sellers 100 lbs. Phosphorus pantoxida, dms., t.l.,	50.00 45.00	-	persion, same basis jb. g.p. copolymer suspension, same basis	.58	.81	1
works	62	-	Poppyseed, Dutch, bgs fb. Turkey, bgs	.45 .59	.49	
c.l., works	.38	-	Potash agricultural (see Potas sium muria Potash, causiic. liq., 45% basis, tanks,	.53 ata).	-	Ì
works	.40 .35	:	Worka	13.00	-	-
Phthaic anhydride, fiske, c.i., t.i., dms., frt. equald,	.30	_	ex forming 100 bs. reg. flake, 88-92%, 400-lo. dms., c.l.,	18.06	-	
molten, tanke, sams basia Ib. Pricas 1-19c. per lb. higher on the We		-	Potassium acetala, NF, gran., dms., t.t.	42.36	-	}
Phthalimida, fisko, works lb. Phthalocyanine blue toner, red shade, bbls , fr1 alid. E. of Rocktes lb.	.85 8.46	-	Potassium blearbonata, tech., gran.,	.80	1.31	- {
green shade, earne basis ib. resinated, bbis., same basis ib.	8.46 9.30 9.10		bgs., c.1, works b. Potassium bicarbonata, USP, gran., chrs., t.l	.31% 22	-	
30 CHEMICAL MA		ING RET		9 1966		ł
	yarışı i	14EM		41 TABB		

	Poisesium bichromeie, gran., 400-lb.	15		Polassom letrobarate, gran., bgs., c.t.	
1	dms., c l., 1.l., works lh. Pojassium biliuorida, tach., dms , t.l.,	.46	- 1	thus supplied	
1	works , fil, equaldlb. Potessium bitertrate, NF, gran , powd.,	.45	49	Potassiani thuccentale rise pertonhigher	-
- 1	bgsib. Potassium borohydride, povd. drns.	90	1 20	lect cryst does to	-
ı	100-1,000 lbs., works lb. Potessium bromete, gran., powd.,	10 00	20 00	works CI.	-
1	200-lb. dnia., c.l., lo.b.	1.06	ŀ	dms . II works it sounds	•
1	works	106	- }	Potassiunt-zirconium fiuonde, tech, dnis 11, wocks, 11t.	1.59
1	C.1 1.0.b. works	1.12	-	Produsone USP dans 5 kilos or	_
Ì	tenks, t.w., works 100 lbs. dms., c.l., t.l., works 100 lbs	14.60 20.65	<u> </u>	INOTE Prem son	
l	calcined, 99-100% K <sub>2</sub> CO <sub>2</sub> , hopper cars or trucks.			Prednisolone acolato, USP, dms , 5 kilos or more	
	works 100 lba	32.50 35.20	-	Prednisotorio, arityd USP, dms. 5 kilos or moro	
1	bgs., c.l., 1.l., works 100 lbs drums 100 lbs	36 40	- [	olic grade, dms. 2.000.lh	
1	Polessium carbonate, gran., puril., 400-lb, dms., 5-dm. lots lb.	.40	46	Processes hydrochloridg.	575
1	Potassium chlorate, cryst., dms., c.l., works	.14%	- 1	USP, ampule grads, dms., 1,000- lb fols, fri. olid lb 4,95	E ED
l	powd., dms., c.l., works	.30	- ' [	Propionalilehydu, tanks, I.o.b lb	220
	shipping point ib. Potassium chioride, chemical grada,	.40	-	E	244
ł	99,95% KCI, bulk, c.l., 1.o b	105.00	- 1	n-Propylecotato, tanks, divd	A
I	USP crys1. dms	105.00 t,12	-	1015 divi1 15 1+50	-
١	USP gran., dms	.67	- {	n-Propyl-p-hydroxybsnzoete, USP, 500 kilos	-
	Potessium chloride, agricultural (sea Pote Potessium chromata, pudf., cryst.,	ssium mun	ste).	rech .500 kilos, Lo b	•
1	dms., works	.57	- ]	Propyl thourself, dms , 50 kilo lots or mora	
1	dms., irt. alid	.93v2	- {	n-Propylemine, dms., c.l. divd lb	.80
	Potessium cyanide, dms., 20,000-ib. lots or more, I.o.b. works ib.	1.32	- i	and Le Gull Coast points .lb. ,17% chemical grade sams basislb. ,15%	.ls
1	Potassium dichromete (see Potassium bichromste).			Propylens glycol, indust, tanks, l.o b lb. 40	43
	Potassium fluoborate, tech., dms., c.l.,	1 40	1.42	USP, tanks, 1 o b. E	.45
1	Polessium fluoride, enhyd., dms.,	1.40	1.76	Propylene oxide, tanks, 1 o b. works,	
1	t.l.,	1.68	-	lin aqueldlb. 47½ Psyllium seed, USP powd bgslb. 1.50	175
1	workslb. Price W. of Cenver 4c. per lb. higher.	1.45	-	Punice, dom , lino, 4F-0, bgs., ten lots	
1	Potessium guelacolsulfonete, 300-lb. dme., 800 lbs. or more fri.			meilium, 012-112, bgs., ten lots., (on 300.00 coarse, 2-extra coarse, bgs., (on	-
	equaldb.	2.10	-	lots ton 300.00	-
1	Potessium hydroxide, tech. (see Potesh, Potsssium hydroxide, USP, pellets,	COUSCIC).		Printen, imp. Halian, lines, bgs., lon lotate b East Const lon 280.00	•
	100-lb. dms., c L, 1f., works, frt. equaldlb.	t.3t	1 33	Coast	-
1	Potessium rodide, USP, gran., cryst., dms., 1,000-lb, lots divd lb.	t0.72	12 39	Coast ton 300 00	
1	ACS grade truckload ib. Polassium-magnesium suitele, std.,	11.32	13.55	Pyrazotono red (red 38), dms.,	1545
	bgs., works ton	59.00	-	Pyroltinim flowers, his grd 0.9% pyrollinins, toniots, irt. alid.ib. 1.91	
-	MgSO <sub>4</sub> bulk, works Ion	67.00	-	Pyrethrum, purit., 20% pyrethrums.	37 15
	Potaesium metabisullete, gran., dms.	.44	-	Pyritine, rold., 2-deg., cl., works	_
1	Polessium murieta, 80-62.4% min. K <sub>2</sub> O, std., bulk. c.l.,			tanks	-
1	1r1. equald., 1.o.b. Sesk., Cenade	52.00	53 00	Pyridosine tiyrirochlorida, USP, 100 kilos or mora, divit kila. 36.00	-
1	soluble, line std., l.o.b	53 50	54.50	Pyritos, Carradian 46-50% S.	500
1	coarsa, I.o.b. Sask for	57.00	56 00	Pyrogallic neli I (see Pyrogallul) Pyrogallici. 100-lb. Juns., 1,000-lb.	15.05
-	gran., f.o.b. Sesk lon Polassium nitrata tert. grade, sid., 50-	56.50	59.50	fols, rivdtb. 13.70	1525
1	ton c.l., divd. SE ton prilled	267.00 277.00	274.00 284 00		
	tech., gran., bgs., c.l., min. 50 tons, divdton	470.00	_		
1	Potassium oxalets, neutral, tech., Ilno gran., powd., 300-lb. dm., 1r1.				
Į	equald	2.54	-		
	c.l., works	1,01	-	Quassin chips	•
-	Potessium pentaborate powder t5c. po	1,00 r No. higher.	-	Quinacririono marcon, dms., 171.	35.20 32.30
	Potaasium perchioraia, dms. c.l., works	.76	-	rind, rims, irl. alki	275
	Potassium permanganate, free flow- ing, bulk, hoppar trucka,			Quinco seed, bgs	425
	50-kg. dms., same basislb.	t.09 t,20	-	dnis., 2.000 oz. or moro oz.	
	150-kg, dms., sama basisib. Potaseium permanganete, USP, 50- ib.	1.17	-	dina., 2,000 oz. or mora 62	256
	kgs., works, c.l., i.l b.	t.36	-	Cheiring sulfinio, IJSP XVIII, 1,000-oz. dries., 2,000 oz. or morg oz. 1.49	250
	Potassium persulfate, 225-lb. dme., 24,000 lbs. or more, I.o.b.			Quinolino, ilnia., I.I., Irt. equaldlb. 1.49 lariks, samo basislb. 1.43	
	ci/ti samo basis	78.80 72.50	-		
	Potessium pyrophosphata tetrebasic, bgs., cl., t.i., works, E., Irt.				
	equatio	63.75	84.00		
	Potassium salicylete, USP, gran., 200-	46.00	49.50		
	to. cms., 2,000 lbs. or mora, works. Irt. alid	1.52	~	h. 2.12	•
	U6P, powd., 300-lb, dms., 2,000 lbs.	1.42	_	Rasil loca, 304 mosecular VI.	-
	Potassium elicate, soin., 29.6-30.2 Ba., 2.5 ratio, i.c., t.t.,			150 500 blog kilo 6.60	:
	dma. cl. t1. works 100 bs	18.90	-	500 or more killos	821
	Potassium silicata, 40-40.5 Ba., 2.1 ra-		-	Repeseed oil, oma.	
	tio, t.c., 1.1., works 100 lbs. 40-40.5 Bs., 2.1 ratio, dms.,		-	dime	
	C.I., I.I., works 100 lbs. Potsasium sificata, sisetronics grade.		-	Red carmina. No. 40 (see Carrio Oxide, red).	42
	100 Pe	28 10	_	Reserving, USP, Cryst., Dollar 9 - 1	. •
	dma., c.l., t.l., works. 100 lbs. solid or glass, 2.15 retio, dma., c.l.,	32 40	_	Resorting USP, cryst., dms. 50 kilos . 0.35	
	L.I., WORKE TOO be	62.40	-	or more, works	
	solid or glass, 2.5 ratio, dms, c.1, t.L. works	45 05		Hesorcinol monoacetete, orthogonal	
	nego indicates percentage by wat	ghi of 810	divided by	Rhodamina red toner, moryscario 926.	
	irt. equalde, bgs., cl., ti.,	4 4 4 4 7		PMA, dms., works.	105.1
	or cowd. dos			works	
	FULDSSHIP ROTORNE 1 I down wheel to	0 -6	1.20 3.10	Byn., cms.	7
	Potassium stannats, dms., irt, elid., ib Potassium sullats, addictitural grade	, Ņ.A.		Discollands load grade, 25 killon, in sa	
	I.O.b. works	15000	160.00	divid. 186. 60 A. Alic. 18. 60	
	Potassium sulleta, gran., purif. 400- ib				

				Ī
Ī	Polassium fetrabarate, gran., bgs., c.t. works	145		
, }	Protession tetrologista powder 15c perte Potassion thocyanate ut5P cost	1.15 t.15 n higher	: 1	PA PA
'	225 to dius, 5 dui lois. Ib. lecti cryst dius et	4.01 .82	:	8
	Potassuutelitanjuni lluorida teeb	.71%	-	
	Potassiunt-zirconium fironde, tech, dnis 11, works, fre	1.24	1.59	1
	Predinsone USP dans 5 Miles or	.78	-	\ '
- (	Prednisolone acolaio, USP, dms, 5 kilos or more gram. Prednisolone, anityd USP, dms, 5	1.03	:	
	Proceine livitroctionale, USP softw.	1.12	-	1
, )	olic grade, dms , 2,000-lb. lots, frt. alid b. Proceine hydrochloridg	4.95	575	1
	USP, ampule grads, dms., 1,000- ib lois, fri, elid	4.95	5.50	1
- {	Propional lehydo, tanks, Lo.b b. Propionic acv1, syrr, pure, tanks, dwd. E lb.	.351/2	344	
- {	n-Propylecoleto, tanks, dvd b. n-Propyleicohol, tanks, dvd lb. n-Propylecillate dms., 100 to 2,000-lb.	.53½ .42	A	
- {	n-Propyl-p-hydroxybsnzoete, USP.	11.50	-	į
1	jech 500 kilos hilo jech 500 kilos, Lo b kilo Propyl paraben (sea n-Propyl-p-hydroxyb	10.80 10.36 enzoata)	:	
	mora	55.00 .75	.80	
1	Propylene, polymer grade, 1.0.b. Tex. and Le Gull Coast points lb. chemical grade sams basis lb.	.17¼ .15¾	,is	إ
	USP, tanks, 1 o b. E	.40	42	1
2	Propylens glycol monomethyl ether, isnks, divd. E	.49		
-	Psyllian seed, USP powd bgslb. Punice, dom, line, 4F-0, bgs., ton	1.50	175	
	meilium, 01 2-11-2, ligs , ton lots , ton	270.00 300.00	:	
- 1	coarso, 2-extra coarso, bgs., ton lots ton Printen, imp . Italian, lines. bgs., lon	300.00	-	
3	nodum, bys., ton loss 1.0.b East	280.00 350.00		
19	coarso, bys., lon lots ( o.b. Esst Coast ton Pyrazotono red (red 38), dms.,	300 00		
5	Pyrazotono red (red 38), dmsb. Pyraltirum llowers, lius grd 0.9%	13.00	1545	
ļ	Pyrethrins, portl., 20% pyrethrins, portl., 20% pyrethrins., portl., 20% pyrethrins., ib.	1.91 37.50	37 15	
	Pondusa mild 2-dag cl., works	5 90		
00	dire., kto tanks kto Pyridosine try freehloride, USP, 100 kilos or more, divi)	5.70 36.00	-	
50	Pyriton, Carradian 46-50% S. minen longien Pyrogallichen (see Pyrogallul)	4.50	500	
50	Pyrogaliot, 100-lis. dins., t,000-lb. lois, divd	13.70	15 25	
00 00				
.				
:	Quassinchips	.57	3520	
	ind, this, irl. tild	24.26 24.90	32.30 2.75	
	Quinco sood, bgs	4.20	125	
	Onlining hydrochlorida, NF, 1,000-02.	2.45	256	
	Chindre shifting 132 XVIII, 1,00001. Oz. ormore. Oz. Opinelne ships 11. Irt. coueldlb.	2.30 1.49 1.43	2.98	
-	lauks, samo basis	1.40		İ
	D			
00 50	T .			
	Real tech., 304 molecular wt jb.	212		
-	Racemathonina. USP, Society	6.80	:	
_	250-500 kilos	1.07		
	Rauwolfis serpentina root, powd. bis-	22.00		
-	Red carmine. No. 40 (see Carrier Oxide, f	ed).	42%	1
_	Resercine, USP, cryst., bots gram Resercinol tech., bgs., t.l., works divd kilo Resercinol, USP, cryst., dms. 50 kilos kilo			
-	or more, works	9.90		
_ led by	lbs. of Increase molybdeted	1.90		
.15	tungsteted, PTMA, dma., 1.6.b	11.50	14,00	
.20	Rhodinol, 25-lb. cns. lt. k	15.2	54	
-	Rhuberb root, India, whois, bgs	6	in St	
.00	dividenti dividenti dividenti dividenti dividenti dividenti di dividenti div	48.5		. : . :

	Sodium bicarbonsto, USP, powd., reg.
ke handi, refined dms. 1.1 Ib. 1.25	grado, bgs., c.l., (.l., works) 17.05 - Sodium o
Contact Block Law Contact But Called	equals
ocher santisee Coaltar plich, rooling.)	fine, same basis 100 be 17.85 - Sodium of
loging riter (see Coatta Juliana, otto Rese of, nat., NF, Bulgarian, otto bots, kio. 6,500.00 7,500.00	tine pamanasis Idolos.
Turker, otto Consists done killo 9.00	Sodium behromate, gran., bgs. c.1, 1.1., works, frt. equald
mandrot, Nr. Spanson kilo 15.00	Sodium billuotide, 400-lb. utils., ca.,
Tunislan, dms. Rosence resin, 30-45%, 100-lb. dms. Works. unit-lb21 .23	100-b. bgs., cl. same basis ib
Borne	
	Sodium bisultie, arrive, ogs. 100 lbs. 28.50 - Sodium
2	works, Wesi
3	
	ossis, vorks, works, West100 lbs 20.00 - 50/n, 100%, bulk, works, West100 lbs 20.00 - 50/n, 100%, bulk, works, West100 lbs 21.90 - Sodium
Sarcherin NF, gran., soluble, dms. 1,000-ib. lois, irt. elid ib 2.50 2.75	WORKS best NE gran, bos., C.I.,
to and solition days, less	works
man 20,000 black lanks, N.Y lb 50	Sodium berohyeride, powo , dilling 1988 21,90
sobia dina. N. 1. day No. 1. bqs. lb. 1.95	Control bereinstein Biggstein Websi
Albanian, DQ In 1.25 1.30	2000 cal tankwagon, works lb. 17.45
Turkish hole kild 195.00 160.00	Sodium bromide, 98%, 9781. 400-10.
Daimagen, Cris	Sodium carbonala, decemporsio, ogs. 284,00
Sacradenyor, taring nowd., dris.,	The state of the s
2,000-blots dres cl. 1.07	Sodium carbonals, morks 100 392.00
Sworks 1000 lbs. or	Socium carboxymemyi calulosa (300 cm.)
USP, cryst., ditis., 1.000 ib. 1.33 1.63	Sodium Cryptale, Crystal, ton 330.00
USP, powd., driss, 1,000 lb 1.68	devered, 5.5. 450-b. dms., Social Soc
Saxifeee Phenylseficyle(e).	CJ., WORKS. C. (See Salt.)
Salavapors(ed, common, do 90 bs. 4.02	Sodium chlorite, Joch., dms., C.I.,
but, same basis . 80 bs. 4.10	WORKS arburt days C.L.
Sal, rock, medium, coarse, salido bs. 2.70	Sodium chromata, arrhyd, oma. c.l., 1.l., works
bulk same basis	5odium chromate, tetranyologia ib
N CO PASE III.U. WOLKS - 10.	Sodium clirato, gran., annyo., 200 ib. 1.95
same basis vv	Sodium citrate, USP, grant, only, ship
Complete tech tenks, works, frt.	ping point.
equald	Sodum cyenate, dms. 1,000-lb. lots. works
basis, works.	Sodium cyanda, priquerias of min.
	divddmo cl.
Sebsoc Bold, CP, bgs., c.l., works lb. 1.95 gurl., bgs., c.l., works lb. 1.94 -	FCC 50-lb, bgs. 57
Seldz mixture, dms., 5,000-5, and 6	leasters tech 60-lb dms.
00 59 Sp. Sp. same besis Ib. 10.00 15.0	
Sama leaves, Alexandria, Wicke and	60 Sodium erythorbale, powd., gran., t.l. 71 Sodium erythorbale, powd., gran., t.l. 97 or nixed t.l., l.o.b. ehipping 10 or nixed t.l., l.o.b. ehipping
Tenganality Mo 1 Mil.	10 point.
Common of USD dens LC.	5odium ferrocyamou, 250 ib .80
Sesams saso, Cantral American	Sodium Ruoborsta, text squald Ib. 1.77
Sienna pigment, burnt, paper 594. 1914	2324 Sodium Huorida, White, by equald, b. 6345
	Dans, of news basis
	150 USP power les point Ib. 4.69
95%, 200 mesh 10n 34.50 35	Sodium formata, bgs., C1, to-lb, bgs.
98.5%, 325 mash ton 51.50 5	attitude of densition, 60%
Side dry-tra, bas, cl., works, son 72.00 7	Nan, 187-2. 51.51
99% under 15 microne, 100 79.50 8	2.60 works. Sodium sulfnydrate.)
	15 00   Sodium hydrosina point E ib
cronized. ton 104,00 to Sics, hard-quartz, 99,5% SICs, 100 S7,00	Sodium hydroxide, USP, periodice, Int.
Meen bos. Cl. Works ton 34.75	equalo toch (see Sode caustic.)
Secon tetrachionde, tech., dms., cl., 50 works 38	1 South Broken D. 1.425
Street buildes brooks cs. Troyoz. 5.36	110 lb. dma.
Sircon tetrachionola, techt., duta., D50  works	Sodium hyposumite leaves, 300- to 500- Sodium lodde, USP, cryst., 300- to 500- 14.72
ACC - water OZ ACNO OZ.	in los cultate 30%, tanka,
Sosphark, crushed, tils	I.O.C. authorate bdB. C.I.,
3008 ash, dense, 30 %, (o.b tan 120.00	WORKS Has tone Sortum Detallita).
bulk, c.l. same basts	Sodium metabolistic in the solid
same basis ton 150.00 bulk, cl., same basis ton 123.00	gran, bos. C.I.
Sode severa la 60% sellers janke,	Sodium, metalic, 12-lo. bricks, IXIS., 93
Guil Coast Works, 1.5.00. 175.00	226 00 C.I. WORLD ON THORE,
73%, same DBS'S	WOIKS
solid. 78%,700-lb.dms. c.t. works	570.00 tanks, works sodum matephosphate, tech. bgs Sodum matephosphate, tech. bgs fri.
	equald
Works jon. 520.00 baada, 76%, 400-lb. dma., c.l., 100lbs. 27.50	28.50 1000 grada, bys. c. 100 lbs. 68.20
WOOKS.	28.50 loodgrada, bgs. c.1 10.0 iii. 100 lbs. 68.26 in West 70o. for gran, and works
basde	bulk, C.I., works
Soda, sal., conc., bgs., c.l. works	3.85 pentanyolatis, 55 100 lbs. 10.05 10.05
	Sodiummolybdate, anhyd., dms. t.o.b.
Lo.b. Works aren 100-	Working the track ID. 7-16
Sodium signale NF, white powd.	e 76 Socium neprius de la Colo
Society of animacellousite, dine. 100-	Sodium Nitrate, USP, bga., C.I., I.O.D., 34.50
1b. 1018 of mora, 1b. 4.73	Sodum nirate, dom., Industrial, bga., lon 284.00 292.0
Code on estimated a Mile III IIVA - IV	C1. World
Sodium ascorbete, USF, union, kilo. 9.3	0 10.30   Imp., coml., 100-0, 523, 1511 ton 205.00 214.
Sodium benzoate, tech., bgs., va., b.	Dulk, C.I., Skiller data balk, C.I.,
Sodium benzoele, USP, OUT. SED.	same days of works.
TOOLIGID BOTTO DANG	89 Sodium nitrite, vor annual 100 bs. 37.25
	82 ·
	and the state of t

						7
lum ortho	slicate, tech., anhyd., .l., works100lbs. 34.50	- 17	AII	FILLA	AL	
jum orthos	tope c) works, 100lbs. 27.45	- 118		FMIL	·AL	
bgs . C.I.,	works	:     •	ונט			1
dium pent	COO-typin	- \\1	BB	ICES		
bgs.	boshitel (see Pantobarbital-socium).	· []]	УK	ILE3		
odlum perbo	orate, terretiyatiza to the	.381/2				-1 '
odum persu	Mala, 225-10, Mila, 24, 10. 6372	: 115	WEEK E	NDING DEC. 26	1966	
55-lb. bga	same basis.	1 %	dise moss	elegrate, dms., C.l., I.I.,		
odium pheni	osulicinate, pontal, dibesic	ì	30.0	00 10. mill b.	.76 -	1
teci	1. 0095. Cl., 15. 100 lbs. 54.50		orbdan triste	arete, Cl., (i., -ju, our ib.	80 -	
	rede, name basis 100 lbs. 57.50 rephate, monobstic, lech, ne basis. 100 lbs 55.75 ne basis. 59.75	- \s		. 1eg. 70% aqueous. . c.l., l.o.b. shipping	.35 -	
lood	rade, sams basis, 100 lbs. 52.25	52.75	lenks.	1.0.b. shipping point	70	- 74 .72
lood	grade, Same basis too lbs. St 50	= \	powd., dm	S. C.I. [J. WUNCS	market report.)	.12
cryst	tech., same dads. 100 ba-		Soyboan oil	See Ows, rais a rospisiock		15
5	triad powd bas, dms.,	2012	957	and the dies does . It	48	.59 .44
	orks.		1a⊓k\$	Il	47	58 43
10	colonate dms. 2.000 lbs or	_	LANKS	los los MS	b. 2.50	2.70
	vote, 1.0.0. III. and tech., bos.,	- 1	Spearminic	II. Claridad. Co. C.	b BOO	-
	works, in equating bas. O.L.	- (	Fai Wssi	neilve	b. 1850	-
,	vorks. In. equal terric dms	0 -	Spruce oil.	dms.	.29	30
	I., I.I., WORKS.	1	518 nnic C	morido, amijan	ID N.A.	-
	100 lbs. 44.75	-	Stanned DXI Stannous C	de dms. works. norde annyd dms. wks	ib N∧ Ms.	-
buil	hopper cars, salle us. 42.50		Stannous	MODORAIS, ICA. COURTS	lb 250	-
1000	100 lbs. 53.00	-	Stannous :	oxide, dms , works . sullate, dms , works	ib 26	39
Sodum	Balicylete, USP, Crysti, Filore,		Siedric ac	d. double higher	in 26	375 .40
	works, Irt. equal 1,000-10.	_	Id-eldini	BSSDO, DUIK	.kb 15	20
	lots of more, spino bus. C.l., t.l.,	_	Straptom	curtagette class aid . b	95.	-
	WORKS 100lbs 198 00		Strontium	nileio, 50-15 bgs	c1, libs 51.50	
Sodium	slicate, solid, or glass, size	_	Evento	monoruel, 99.6° min	1 C . 23	27
	works 100 lbs 27.75		1	and and the self-	bulk	- 81
) t.	95-2.00 ratio, built 100 lbs. 20.30			OD DIRITI	lb 77	AI
pć	18., C.I., C.I., Works 3,22-3.25		cl62	r, same busin	ih. 235	2 10
	ratio, bulk, c.l., t.l., int. oquald of indicatos porcentago by weight of S  or indicatos porcentago by weight of S	iO, divided by	Succinio	acid, punt, cryst, dms lit and, anhydride,dms, cit, til,	10 200	, 10
"Rai	o" indicatos parcentago of ria. O		Succinio	work reld , white, bigs , c1	10 171	
Sodiu	m silicolluonde, bgs. 100 lbs. 17.9	A -	Suchase	Trily C	. 90	_
Sodiu Sodiu		22 -		La diul	No 119	
5odu	M SUIIBIB, IN AM, POWER ID	23/2 -		a, dms . t1 . divu.		
160	h, detergent, rayon-grado. cl., works. Gull			grade, too it.	NIO 12 30	
	works, duli, c.i. works, msulfete, West, bulk, c.i. works, int. equald		5ullab	enzamide, dms., 500 km.	5.500	
Sof	um sullate, proto grade, ton 47	.00 53.00	Suita	MICO CONTRACTOR	c 500	
Sod	ium sullhydrale, llaka, 70-72%.			THUS USE COULD UP	ns.500	_
	equaldton 500		1	MICH LICE di	ms 500	_
"	equald	0.00 -	Suite	KINDS. SD mictor	crystals	_
	E. III. Equal 1.	- 00.0		Ullia John SOO Milo	sk#O -32-0	
6 So	dium Bullion, loss of anuald, ton 24	0.00 –	I Gulfá	dms. 50 kilos	ma 500	40.00
l e	dum suffite, annyo., tech . coolbe 2	3.76 -	Suff	KDUS bowl	. 6	44.00
50 50	dium suffocyanios of (social).		Sull	WOINS	cl. id.	
I S	dium terresulta for equald ton 54	- 00.04	5un	100	auto dans., _	.36 -
	b. dms., 5 dms. or more	3 28 -	S.	Ind teach DOS	£1., 1,0 0	.67% -
32	tech., snhyd. dms., 2,000 lbs. or	.97		WO KS	rv. grade	B 00 -
-  ,	occum thiosulate, tech., photo- crace.		90	Oma.	dom . 10 b	8.00 120.00
- [`	works frt equaid 100 lbs.	45.50		ARRESCO, CHAIRE I	iona-ton 12	0 00 122 00 0.00 122 00
- \	Datato	28.50 14%	- \	GCOVERED. UND.	long ton 13	35.00 -
-	Sodium Interior Society 6 b	.28	-	1 o b. tenks. Alberta, Co	long-lan	80.00 85.00 52.50 -
.B0	Socium tripolyphosphate, lech., bos., Cl.,	39.75	- 1	dark, ax-1 amps, rig.	1 10 Stuper long	rton decount for
~ \	bulk hopper cars, same basis, 100 lbs.	37.50	_ \	most customers.	punty, comi	
-	lood grade, bgs., c.t. 100 lbs.	48.50		basis	100 lbs	13 60 - 13 60 -
- \	Sodium lungstale, tech. high moly. dms 10,800 bs. or more, int.	5.00	5.50	Sullur, reid., as.a io	mines ba-	.7.50
-	elid	8.00	- \	8is	100 lbs.	17.50 "
-	Sodim-emmonium priospriate, parti	.52	-	863	NF. 99 B5%	20.00
-	Sodium-Iormaldenyou duris	.91	- }	unit haust	Tinn ine	28 00 -
-	Sociumi-zirconyl suttate, cors	.28 .1B	- 1	Sulfur, rubbermakers.	60-th, bas	14.60
-	to, totacor more, works . b. tech., dms., any quantity, works . b. solvent nephths, petroleum, straight sromatic, b.r. 320°-350°F,			C.I., mines bas	ion through 325	
-	56°Fm.a.p., tanks: gai	1.52	-	BLIGSH' Devise.	of works, fri	
292.00	tional Off			terks, same b	asis	
014.00	Solvent naphinal per della lanks:		17. 360°F-	1 States Grounds, 144. or	100	EST A
214.00	Mam Jelegy 88	i. 1.30 i. 1.30	1.00	CHIEF MOUGGISTISTED	- D	75.7
	Houston  Illinois  Borbic ecid, Li dins., divd.	al 1.30 b. 2.50	1.35 3.10			
: -	December 29, 19	86	CHEA	IICAL MARKETI		4
					And the last of th	

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WEEK ENDING DEC. 26, 1986

The same of the sa		
Sulfuric scid, virgin 100% tanks, works		
Esal Coest ton	71.75	06.00
Guit Coast ton		95.90
Addunet	75.00	88.49
Midwest ton	60.25	_
Southeast ton	68.15	_
West Coast	65.00	_
NOTE: For prices on 60 and 66 Bs.,	multiple by	7787
.9318, respectively. For price of	2004 Aurilia	. From El
is and \$3.\$4 to about prices and	ZU76 JUININ	g cieum, a
is, add \$3-\$4 to above prices and	a windiahi bi	/ 1.045.
Sulfuric acid, smelter, 100% tanks, work		
Gull Cossi ton	46.00	52.00
New Mexico ton	20.00	25.00
SQUINGAS1	63.15	
93%, tanks, divd., Northwest ton	80.00	65.00
Sunflowerseedoll, cruda, I.o.b. Min-	UD.00	09.00
COGNOTO		
neapolsb.	.1415	.15
Superphosphate, triple, 46% or more,		
a.p.s., run-of-pile, bulk, c.l.,		
Fle	2.75	3.05
bulk, gran., c.i., Fie	160.00	165.00
1010	100.00	103.00
		عصب

Τ	
Total desiration of the second	_
Tafc, dom., grd. New York bgs., c.t., works	

i	Tafc, dom., grd. New York bgs., c.t.,		
	99.5%, 325 mesh, box, c.l.	64.00	-
	Works	64.00	60.00
	cronized, bgs., c.l., works., ton 525 mesh, micronized, bgs.,	187.00	236.00
	c.l., works	200.00	-
	WITES 45.0	90.00	_
	ord., Vermont, off-color grd., bgs., c.f., works	136.00	_
	Imp., Canadisn, grd., bgs., c.l., works. ton Tall oil, cruda, Southeasi, tanks.	70.00	84.00
		60.00	100.00
	dist., farka, same basis lo.	.31 .18	23
	Works, tri, sound 1		
	less than 2% rosin acidlo. Tallow (aes Oils, Fats 6 Waxes market re	.20½ .22	.231 <del>2</del> .27
	PUIDW, WILLY ACKIS, IRCh., non-ret	port.)	
	dmsc.ldlvdlo. tanks.dlvdlo.	.37 .28	.40 .45
	ofvd		
	tanks, divd. ib. Tangerine oil, Fla., dms. 1.0 b. ib.	.37 .35	.33 .42
	indepricating kio	6.50 52.80	8.50
	Tankage, animal leeding, 9-1)%, NH <sub>3</sub> , New York, bulkunif-ton		
	THE PROPERTY OF A COLUMN COLUM	5.50 Oceas tank	age).
	lote.	6.09	_
	Tar actd oil, 15-18% 11, dms. 10 h	4.62	-
	works	1.40	-
	DUEDNER 11 dans (all mortes Est	1.59 1.67	=
١	Tertaric acid. NF, bgs., b. Tellurlum, metallurgical, f.o.b. works. b. Termo by whate NE ion.	1.20 12.00	1.50
	Terpin hydrate, NF, imp., cryst., powd., 35 kilo drums, f.o.b. shp. pi.,	12.00	-
	ITI. OCUMO	1.35	_
	Terpingol	1.1 <u>0</u> 2.40	1.50
	Tarpinyi progionate, dme	1.35	2.05
	Tatrachioroethylene, tech. (see Perchioro Tetrachioroethylene, USP, dris., c.l.,	4.50 cethylene).	-
	1.I., WORKS	.30 %	_
	Tetraethyl orthosilicate, bulk, f.o.b. works. ib. Tetraethylene glycol, tanks, (rt. alid, ib.	1.53	1.86
	7 9 II QB ITTYIBTIB DIVCOL MISCEULATA + 6	.67	-
	dms., i o.b. works,	1.50	-
	basis. ib. Tstrasthylihluram diaulfide, tach.	1.70	1.75
	7888. 9705 LL 317 8121 Ib	.66	2.07
	works.	1.02	2.01
	tanks, same basis	-86	Ξ
	Membris rang is	.90	_
	Tell ahydroph hairc anhydriga dma	7.20	-
	C 1,1.1 LO.D. WORKS	.65	_
	Tatrasodium pyrophosphate (see Sodiur letrabasic.)	n pyropho:	etrabasic). Sphate,
	Thatium metal, dwd	35.00	_
	Theobromine, bulk ( o h. works   bills	140.00 140.00	150.00
	Theophyllina, USP, anhyd, 50-kilo dms., 10,000-kilo lois kilo		
	HIMMIND OVOTOCHONGS LISP IOG. VIIA	12.90	12.85
	drns., divd	33.00	-
	Thiodiphenol 98% days to b	33.00	-
	worka ib. Thioflavin green toners, molybdalad, PMA, driss ib.	3.35	-
	PMA, dms	5.40	8.05
	Thiogiveolic acid, raid, dme, ton lots	5.60	5.85
	Thicindicold marrion dres for all the	2.07 7.50	-
	reds, dms fri alid	5.86	6.12
	<b>∠4</b> ,00040. Min. 1.I., Cime. Iri		
	equaldb.	.55	

de-Threconis, das 10 kilos wiles	•	Thorlum nitrale, puril, dms., 100-ib. lots or more, worksib.	2.75	
Spanish   192		di-Threonins, dms 10 kilos wks kilo.	128.00	Ξ
N.F. white, dms.   100-bs.   1.0.b.	i	Spanish, bgsb.	.75	-
Tri neresis (NY composite) b. NA.  Tri neresis (NY	_	NF, white, dms	22.00	6.15
The metal (NY composite) b. N.A. Tharism double, natass, bgs. 20. 100 lots, tri. aid. 10. 276 lots of the set	. :	WOCKS		58.20
Section   Sect		Tin metal (NY composite) ib. Titanium dioxide, anatass, bos., 20-		-
## THARMON GOLDEN PRISE, 1969, 20	÷	4 1 100 lots, 171, abid	.77	.79
10   10   10   10   10   10   10   10	_	aie, frt. alid	.76	-
A characteristic material costs 1c, per poundmore. Titanium hydride powd. electronics grade, dms. b. b. 30 - 35 - 35 - 36 - 36 - 36 - 36 - 36 - 36		ioniots, irt. aidib.	.81	.64
Titanium hydride powd. electronics greate, dms.   b.   20.50   Titanium tetrachloride, tech. bulk, o.   c.   c.   c.   c.   c.   c.   c.	2	Non-chaiking rutile material costs 1c. ps	.84 Froundn	nore.
		ritanium hydride powd. electronics		_
200-gal-yinderia C.I., same basis lo.   50   1   1   1   1   1   1   1   1   1		(.o.b. worksb.		.35
Totals acid, 2,000 lbs. or more   D.   2,45	n	Trianium sponge, 89.3%, fiber drums	.50	-
Code acts   Code   Co	=	WKSh.	4.85	_
Gran. Coopheryl acid auccinete, cryst. dis. Gran. Gran. (dis. Gran	0	d-a-Tocopherols, 67%, dms klip		-
Gris	5	dmskiln	67.48	_
Carter   Coophery   acetate, USP 50kB   Cart   Coophery   acetate, USP 50kB   Cart   Coophery   acetate, USP 50kB   Cart   Coophery   Carter   Cart	5	(imskiln		_
Styre of yew. 1, 50-410 cm		di-a-Tocopheryl acetate, USP 50-kilo		-
Columber   December	_	J 50% 07 powd., 50-kilo dm kilo	17.00	-
Seydom, N.J., divd.   gel.   70		i Oluene, petroleum, ind. or nitration, tanks	3	8.68
Carlago, M. dhvd. gal. 70 - Clarion, Pa., f.o.b. gal. 70 - Per Part, Rev. f.o.b. gal. 70 - Per		Bayonne, N.J., divded	.70	-
Dues   Park,   Debt.   Gal.   Coloration		I CINCACO, U. CINCI. cal	.70 .70	-
Country   Coun		Deer Park, 19k., I.O.D	.70	-
New Jersey Metro, olvd		GUN CORST, SDOI, DATTIES ORI	.76	-
Tolune d-lacycynete (mixed isomers), 80%, 2.4-and 20% 2.6-isomers, 1.01 P-Tolunensurionemicle, powd., dms., 1.1, works b., 3.55 m-Toluidins, tech., buik b., 3.55 m-Toluidins, tech., buik b., 3.60 p-Toluidins, tech., buik b., 3.60 p-Toluidins, tech. cast solid, dms., cl., works b., 1.80 Liq., tanks, same basis b., 1.80 Liq., tanks, same basis b., 1.95 p-Toluidins, mixed, o-m-p, tech., Rquid, c.i.l.ob. works b., 95 Toluidins, mixed, o-m-p, tech., Rquid, c.i.l.ob. works b., 95 Toluidins, mixed, o-m-p, tech., Rquid, c.i.l.ob. works b., 95 Toluidins, mixed, o-m-p, tech., Rquid, c.i.l.ob. works b., 95 Toluidins, mixed, o-m-p, tech., Rquid, c.i.l.ob. works b., 95 Toluidins, mixed, o-m-p, tech., Rquid, c.i.l.ob. works b., 38 Toluidins, mixed, o-m-p, tech., Rquid, c.i.l.ob. works b., 38 Toluidins, mixed, o-m-p, tech., Rquid, c.i.l.ob. works b., 38 Tragacarting um, No. 1, ribbons, cns. b., 38 Tragacarting um, No. 1, ribbons, cns. b., 38 Tragacarting um, No. 1, ribbons, cns. b., 38 Tributyl olfrate, 1.1., drums, 1.0.b., 75 Tributyl phosphate, tanks, works. b., 1.70 Tributyl phosphate, tanks, works. b., 1.70 Tributyl phosphate, tanks, works. b., 1.70 Tributyl phosphate, tanks, works. b., 1.33 Trichloroacestc acid, tech., 300-lb. drums, cl., 1.0b., works. b., 40 USP, 100-lb. dms., irl. equadd, lb., 399/2 1.2.4-Trichloroethane, lanks, 1.0.b., 40 1.1.1-Trichloroethane, 1.0.b., 1		New Jersey Metro, divid nai	.70	-
80%, 2.4- and 20% 2.6- isomers, jumbo tankcare, dwd b 1.01 p-Toluenesurionemide, powed, clms., 1.1., works b 3.55		Providence, R.L. divd		-
p-loueneauronemide, powd., dms., 1., works. b. 3.55 m-Toluidins, tech., buik. b. 3.10 o-Toluidins, tech., buik. b. 3.60 .64 p-Toluidins, tech., buik. b. 60 .64 p-Toluidins, tech. csst solid.dms., cl., works. b. 1.80 1.85 Liq., tartes, same basis. b. 1.70 metals, same basis. b. 1.70 metals, same basis. b. 1.70 metals, same basis. b. 1.95 metals, same basis. b. 1.95 metals, same basis. b. 1.95 metals, c.l., lob. works. b. 1.85 light, c.l., lob. works. b. 1.85 light, c.l., lob. works. b. 1.85 light, c.l., lob. works. b. 1.000-lb. lots. 1.0.b. 1.00 light, c.l., lob. works. b. 1.000-lb. lots. 1.0.b. 1.00 light, c.l., lob. works. b. 1.000-lb. lots. 1.00 light, c.l., lob. works. b. 1.250 15.00 light, c.l., lob. works. b. 1.70 light, c.l., lob. 1.70 light,		60%, 2.4- and 20% 2.6- isomers.		
		p- i oluenesuitorsemide, pawd., dms.		-
BUIK, same basis b. 180 1.85 p-Tolludina, 1sch. csat solid, dms. cl., works b. 1.80 1.85 Liq., tanks, same basis b. 1.70 fisks, same basis b. 1.95 folkdinss, mixed, o-m-p, tech. Riquid, c.L. I.o.b. works b. 1.03 butk same basis b. 1.95 folkdinss, mixed, o-m-p, tech. Riquid, c.L. I.o.b. works b. 1.03 butk same basis b. 1.03 butk same basis b. 1.03 butk same basis b. 1.00 Cincinnst, Onto b. 2.90		ini- tolulains, tech., bulk	3.10	Ξ.
C., works.  C., works.  Lig., tanks, same basis.  D. Lig., tanks, same basis.  Toluldinss, mixed, o-m-p, tech. Rould, c.i.l.ob. works.  D. Dunk same basis.  D. Dunk same basis.  D. Dunk same basis.  D. Cincinnsi, Orlio  Tonka baens. Angosiura. prime.  1,000-lb. lots. t.o.b.  Cincinnsi, Orlio  Tonka baens. Angosiura. prime.  1,000-lb. lots. t.o.b.  D. Toxaphrens. dris. c.i.l., works.  D. Same basis.  D. Tributyl olirate, 1.l., drums.  Tributyl olirate, 1.l., drums.  Tributyl olirate, 1.l., drums.  Tributyl phosphate, tenks, worke.  D. Tributyl phosphate, tenks, worke.  Tributylamins, dms. c.l., dvd.  D. 1.38  Trichloroacsic acid, tech., 300-lb.  dms. ol. l. 0.b. works.  USP, 100-lb. dms., fri. equad.  D. 1.2.4-Trichlorobenzene, pure, tanks.  divd.  D. 1.1.1-Trichloroethene, tenks, consumers.  divd.  D. 1.1.2-Trichloroethene, tenks, consumers.  divd.  D. 1.1.2-Trichloroethene, tenks, consumers.  divd.  D. 1.1.2-Trichloroethene, tenks, fo.b.  Trichloroscoyanuric acid, dres.  D. 1.2.5  Trichloroscoyanur		DUK. Same basis		
raks, same basis.  Touludinss, mixed, o-m-p, tech, liquid, c.i.i.p.b. works.  Dulk same basis.  Tonka baens, Angosiura, prime, 1,000-lb. lots, f.o.b. Choinsis, Ohlo  Tonka baens, Angosiura, prime, 1,000-lb. lots, t.o.b. Cancinsis, Ohlo  Toxaphena, dms., c.i., t.l., works.  Tragecanth gum, Ne. 1, ribbons, cns. lb. 38.00  Tragecanth gum, Ne. 1, ribbons, cns. lb. 38.00  Tragecanth gum, Ne. 1, ribbons, cns. lb. 38.00  Tragecanth tanks, dvd. E.  Tributyl olirate, 1.l., drums, 1.o.b.  Tributyl phosphate, tanks, works.  Tributyl phosphate, tanks, works.  Tributyl phosphate, tanks, works.  Tributyl phosphate, tanks, works.  Trichloroacsic acid, tech., 300-lb.  dms. o.i., l.o.b. works.  Dusp, 100-lb. dms., iri. equacid.  1, 2, 4-Trichloroethana, inks, f.o.b.  Trichloroethana, lanks, d.bd.  D.  Trichloroethana, lanks, d.bd.  D.  Trichloroethana, lanks, d.bd.  D.  Trichloroethana, lanks, d.bd.  Trichloroethana, lanks, d.bd.  Trichloroethana, lanks, d.bd.  D.  Trichloroethana, lanks, d.bd.  D.  Trichloroethana, lanks, f.o.b.  Trichloroethana, lanks, f.o.b.  Trichloroethana, lanks, f.o.b.  Trichloroethana, lanks, d.bd.  D.  Trichloroethana, lank		Ci., worka		1.85
bulk same basis	,	Toluidinas, mixed, o-m-o, tech. liquid		-
Cincinnsis, Ohlo bits, Lob. Cincinnsis, Ohlo bits, Lob. Cincinnsis, Ohlo bits, Lob. Cincinnsis, Ohlo bits, Lob. Cincinnsis, Ohlo bits, Lob. Cincinnsis, Ohlo bits, Lob. Cincinnsis, Ohlo bits, Lob. Cincinnsis, Ohlo bits, Cincinnsis, Cin		bulk same basia		-
Total organical and the common of the common		Cincinnati, Ohio		_
Pragacarth gum. No. 1, ribbons, cns. ib. 36,00 40,00 fisked powder ib. 12,50 15,00 15,00 17,00 fisked powder ib. 12,50 15,00 15,00 17,00 fisked powder ib. 12,50 15,00 15,00 17,00 fisked powder ib. 12,50 15,00 17,00 fisked powder ib. 12,50 15,00 fisked powder ib. 12,50 15,00 fisked powder ib. 13,00 ib. 1	- {	1,000-lb. lots	8.50	_
ributyl phosphate, tanks, worke   b.   1.70   Tributyl phosphate, tanks, worke   b.   1.55   Tributylamine, dms., c.l., dvd.   b.   1.38   Trichloroacsic acid, lech., 300-lb, dms., c.l., l.b., works   b.   94   USP, 100-lb, dms., fri. equakt   b.   994   USP, 100-lb, dms., fri. equakt   b.   994   USP, 100-lb, dms., fri. equakt   b.   6114   USP, 100-lb, dms.,		Tracacarth cum No. 1 dibbons con the	86.00	40.00
Inibutyl phosphate, tanks, worke ib. 1.55 1.77 Iributylamine, dms., c.l., divd. ib. 1.38 Irichiloroaces'c acid, sech. 300-ib. dms., al., i.o.b. works ib. 94 - USP, 100-ib. dms., fri. equald. ib. 99½ - 1.2.4-Trichilorobenzane, pure, tanks, divd. ib. 1.1-Trichioroethane, lanks, consumers, divd. ib. 40½ - 1.1.2-Irichiloroethane, lanks, fo.b. 40½ - Irichilorosthane, lanks, fo.b. 40½ - Irichilorosthyena, tanks, divd. ib. 36½ - Irichilorosthyena, tanks, divd. ib. 36½ - Irichilorosthyena, tanks, divd. ib. 36½ - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 125 - Irichilorostoyanuric acid, dise. ib. 135 - Irichilorostoyanuric acid, dise. ib. 135 - Irichilorostoyanuric acid, dise. ib. 150 - Irichilorostoyanuric acid, dise. ib. 150 - Irichilorostoyanuric acid, dise. ib. 150 - Irichilorostoyanuric acid, dise. ib. 150 - Irichilorostoyanuric acid, dise. ib. 135 - Irichilorostoyanuric acid, dise. ib. 135 - Irichilorostoyanuric acid, acid, dise. ib. 120 - Irichilorostoyanuric acid, a		Tributyl oldrete at la decrease 4.5.		15.00
tarke, asme basis. ib. 1.38  Trichloroacetic acid, tech., 300-lb. dms., cl., l.o.b., works. ib. 9942  USP, 100-lb. dms., frt., equed. ib. 9942  1,2,4-Trichloroetherne, tanks, consumers, dlwd. ib. 4042  1,1,1-Trichloroetherne, tanks, consumers, dlwd. ib. 4042  1,1,2-Trichloroethana, lanks, f.o.b. 4042  1,1,2-Trichloroethana, lanks, f.o.b. 4042  Trichloroethylena, tanks, dlwd. ib. 3642  Trichloroethylena, tanks, dlwd. ib. 3642  Trichloroethylena, tanks, dlwd. ib. 3642  Trichloroethylena, tanks, dlwd. ib. 1.25  Trichloroethylena, tanks, dlwd. ib. 1.35  Tricresyl phosphate, tanks, dwd. ib. 1.35  Tricresyl phosphate, tanks, dwd. ib. 1.60  Trideby alcohol, mixed isomers, tanks, dlwd. ib. 57  Trichloroethine, 85%, tanks, dwd. ib. 57  Trichloroethine, 85%, tanks, dwd. ib. 57  Triethylacohol, mixed isomers, tanks, dlwd. ib. 35  Triethylacohol, mixed isomers, tanks, flb. 57  Triethylacohol, mixed isomers, tanks, flb. 57  Triethylacohol, mixed isomers, tanks, flb. 27 44  27 14  Triethylacohol, mixed isomers, tanks, flb. 1.35  Triethylacohol, mixed isomers, tanks, flb. 27 14  Triethylacohol, mixed isomers, tanks, flb. 27 14  Triethylacohol, mixed isomers, tanks, flb. 1.35  Triethylacohol, mixed isomers, tanks, flb. 27 14  Triethylacohol, mixed isomers, tanks, flb. 1.35  Triethylacohol, mixed isomers, flb. 1.35  Triethylacohol, mixed isomers, flb. 1.62  Triethylacohol, mixed isomers, flb. 1.62  Triethylacohol, mixed isomers, flb. 1.62  Triethylacohol, mixed isomers, flb. 1.63  Triethylacohol, mixed isomers, flb. 1.64  Triethylacohol, mixed isomers, flb. 1.65  Trimethylofpropane bgs cl. 1.1 dwd. ib. 5812  Triphonyl phosphate, dms., 10.5  Triphonyl phosphate, dms., 10.5  Triphonyl phosphate, dms., 11. ft. 605  Triphonyl phosphate, dms., 1.7  Triphonyl phosphate, dms., 1.7  Triphophen, dms., 25-kib lots kib 62.00  Triphophen, dms., 25-kib lots ki		Tributy phosphate tanks works the		
USP, 100-lb. dma, frt. equaid. ib. 9942  1,2,4-Trichiorobenzene, pure, tanks, divd. ib. 6112  1,1.1-Trichioroethere, tanks, consumers, clivd. ib. 4042  1,1.2-Trichioroethere, tanks, fo.b. 4042  1,1.2-Trichioroethere, tanks, fo.b. 4042  1,1.2-Trichioroethere, tanks, fo.b. 4041  Trichiorostoyanuric acid, dma. ib. 3842  Trichiorostoyanuric acid, dma. ib. 125  Trichiorostoyanuric acid, dma. ib. 135  Trichiorostoyanuric acid, dma. ib. 150  Trichiorostoyanuric acid, dma. ib. 151  Trichiorostoyanuric acid, dma. ib. 152  Trichiorostoyanuric acid, dma. ib. 153  Trichio			1.38	1.77
divd ib		Trichloroacsic acid, tech., 300-lb. dms. c.l., i.o.b., works lb.		_
Interpretation of the state of		- I - I - I - I - I - I - I - I - I - I		=
1,1,2-Trichloroethane, lanks, f.o.b. works.  Trichloroethylene, ranke, divid. lb. 36 v2 - Trichloroethylene, ranke, divid. lb. 125 - Trichloroethylene, series decid (see 2,4,5-T). Tricholine scitate, 65%, soin. non-ret. dms., 1,500-lb. lots, civd. lb. 1.35 - Tricholine scitate, 65%, soin. non-ret. dms., 1,500-lb. lots, civd. lb. 1.80 1.76 Tricholine scitate, 65%, soin. non-ret. dms., 1,500-lb. lots, civd. lb. 1.80 1.76 Tricholine scitate, 65%, tanks, civd. lb. 1.80 1.76 Tricholine scitate, 1.00-lb. lots, same basis. lb. 57 - Soin, same basis. lb. 35 37 Iriethylamine, dms., c.1, divid. lb. 1.35 - Triethylamine, dms., c.1, divid. lb. 1.30 - Triethylamine, dms., c.1, divid. lb. 1.30 - Triethylamine, dms., c.1, divid. lb. 1.30 - Triethylamine, dms., c.1, divid. lb. 1.30 - Triethylamine, dms., c.1, divid. lb. 1.16 - Triethylamine, dms., c.1, divid. lb. 1.16 - Triethylamine, dms., t.0.b. Gali lb. 47 Triethylamine, dms., t.0.b. Gali lb. 47 Triethylamine, dms., t.0.b. Gali lb. 1.15 - Triethylamine, annual, t.0.b. Gali lb. 1.15 - Triethylamine, annual, t.0.b. Gali lb. 1.15 - Triethylamine, annual, t.0.b. works lb. 1.50 - Triethylamine, annual, t.0.b. works lb. 1.51 - 55 - Tri-laopopanolamine, dms., c.1, frt. alid. E. lb. 1.00 - 54 v2 - 25% soin., tanks, frt. equald. 100% basis. lb. 54 v2 - 25% soin., tanks, frt. equald. 100% basis. lb. 56 v2 57 - Trimathylamine, annual, frt. equald. 100% basis. lb. 1.50 - Trimathylopropane bgs c.f. t.1 divid. lb. 78 - Triphonylane ghycolitaniss. (c.b. b. 56 v2 57 - Triphonylane ghycolitaniss. (c.b. b. 56 v3 57 - Triphonylane ghycolitaniss. (c.b. b. 64 68 11. works lb. 1.50 - 1.50 11. soins lanks, frt. equald. 1.1 works lb. 1.50 - 1.50 11. soins lanks, frt. equald. 1.1 works lb. 1.50 - 1.50 11. soins lanks, frt. equald. 1.1 works lb. 1.50 - 58 v2 57 11. soins lanks, frt. equald. 1.1 works lb. 1.50 60 65 0		1,1,1-Trichloroethene, tanks, con-	.61 1/2	-
Tidchloropheroxyace tic acid (see 2, 4,5-7). Tricholins citrate, 65%, sohn, non-ret. diss. 1,500-lb. lots, divd. b. 1.35  Tricresyl phosphate, tanks, 1.0.b. works. b. 1.80 1.76  Tridecyl alcohol, mixed isomars, tanks, divd. b. 35 37  Bethanolamine, 85%, tanks, divd. E. ib. 35 37  Bethanolamine lauryl sulfate, tanks, 1.0.b. works. ib. 27 ¼ 27½  Triethanolamine lauryl sulfate, tanks, 1.0.b. works. ib. 1.20 -  Triethyrtamine, dms., c.1, divd. ib. 1.33  Triethyr citrate, I.I., drums, 1.0.b. works. ib. 1.62  Triethylens glycol dipelargonate, lanks 1.0.b. works. ib. 47  Triethylens glycol dipelargonate, lanks 1.0.b. works. ib. 28½  40-60% tanks, 100% basie, ir1. equald. ib. 1.43 1.45  Tri-isophylene, tanks, frt. equald. ib. 1.51  Tri-isophylene, lanks, ir1. equald. ib. 1.55  Tri-isophylene, lanks, divd. ib. 45  Tri-isophylene, anhyd., tanks, ir1. equald., 100% basie., ir1. equald., 100% basis. ir1. equald., 100% basis. ir1. equald., 100% basis. ir1. equald., 100% basis. ir1. equald., 100% basis. ir1. equald., 100% basis. ir1. equald., 100% basis. ir1. equald., 100% basis. ib. 57½  Trimethylopropane bgs c.i. il divd. ib. 78  Trimethylopropane bgs c.i. il divd. ib. 78  Trimethylopropane rivacryleta, t.i. dms. 1.c.b. works b. 1.50  Triphonylene glycol tanks, frt. eduald, 100% basis. b. 1.50  Triphonylene glycol tanks, io.b. ib. 54  Trisodium phosphate (see Sodium phosphate, tribasio)  Trippiophan, dms., 25-kio lots kio 62.00 65.00  Tung oil, tanks, irn. New York. ib. 31  Tungetic acid 922%, dms., 1,750  6,000 ibs., works ib. 12.85  Turmerio, Allopos 5% ib. 12.85		': ': 4'   'WillOfDAIDADA Janke fob		
Tricholins citrate, 65%, sohr. non-ret. dms., 1,500-lb. lots, clwd. b. 1.35  Tricresyl phosphate, tenks. 1.0.b. works. b. 1.80 1.76  Tridecyl alcohol, mixed isomers, tenks, dwd. b. 57  Tridecyl alcohol, mixed isomers, tenks, dwd. b. 57  Tridetyl alcohol, mixed isomers, tenks, dwd. b. 57  Tridetyl alcohol, mixed isomers, tenks, dwd. b. 35 37  Trietholonamina isuryl sulfate, tenks, f.0.b. works. b. 35 37  Triethylamine, dms., C.I., divd. b. 1.33  Triethylamine, dms., C.I., divd. b. 1.33  Triethylamine, dms., C.I., divd. b. 1.30  Triethyl phosphate, tenks, dwd. b. 1.60  Triethyl phosphate, tenks, dwd. b. 1.16  Triethylene glycol, tenks, 1.0.b. Gull b. 47  Triethylene glycol dipelargonate, lanks 1.0.b. works. b. 1.62  Triethylene glycol dipelargonate, lanks 1.0.b. works. ib. 2892  40-60% tanks, 100% basie, irr. equald. 100% basie, irr. equald. 100% basie, irr. equald. 100% basie, irr. equald. 100% basie, irr. equald. 100% basie, irr. equald. 100% basie, irr. equald. 100% basie, irr. equald. 100% basie. b. 57 vz  Trimathylemine, anhyd., tenks, irr. equald. 100% basia. b. 54v2  25% soin., tanks, irr. equald., 100% basia.  40% soin., tanks, irr. equald., 100% basia.  40% soin., tanks, irr. equald., 100% basia.  40% soin., tanks, irr. equald., 100% basia.  Trimathyloloropane bgs cl.1.I divd. ib. 76  Trimathyloloropane bgs cl.1.I divd. ib. 76  Trimathyloloropane fracryleta. t.l. drs. t.o.b. works b. 1.60  Triphonylene glycol tanks, (o.b. 5. 64  83  Trisc(hydromethyl) nitromethane, soild, 1.1. works b. 1.1. works b. 1.50  Trippiophan, dms, 25-kilo lots kilo 62.00 65.00  Tung oll, tanks, irr. New York b. 1.00  Tungetic acid 92%%, dms., 1,750  83		Trichicrosthylens, tanke, divd ib. Trichicrosocyanuric actid dose	.361/2	Ξ
Tricresyl phosphate, tanks, f.o.b.  works		THE BUT OPTIONOXVECSTIC SCIC (See 2.4 S.T.)	1.25	-
Tridecyl alcohol, mixed isomers, tanks, dwd. b. 57 - 1 Triethroclamine, 85%, tanks, dwd. b. 57 - 1 Seys, tanks, same basis. b. 35 37 Triethroclamina isuryl sulfate, tanks, ib. 35 37 Triethrydamine, dms., c.1, dwd. b. 1.20 - 1 Triethryfamine, dms., dwd. b. 1.15 - 1 Triethryfamine, dms., dwd. b. 1.15 - 1 Triethryfamine, dms., dwd. b. 1.15 - 1 Triethryfamine, dms., dwd. b. 1.15 - 1 Triethryfamine, dms., dwd. b. 1.15 - 1 Triethryfamine, dms., dwd. b. 1.15 - 1 Triethryfamine, dms., dwd. b. 1.15 - 1 Triethryfamine, dms., dwd. b. 1.15 - 1 Triethryfamine, dms., dwd. b. 1.15 - 1 Triethryfamine, anhyd., tanks, int. aquaid. b. 35 - 1 Tri-tsobutyfamine, dms., c.1, frt. afld. E. b. 57 v2 Trimathryfamine, anhyd., tanks, int. aquaid., 100% basia. b. 54v2 - 2 Seys., tanks, frt. aquaid., 100% basia. b. 54v2 - 2 Seys., tanks, frt. aquaid., 100% basia. b. 56v2 57 Trimathryfoloropane bgs c.f. t.f dwd. ib. 76 - 78 Trimethryfoloropane bgs c.f. t.f dwd. ib. 76 - 78 Trimethryfoloropane bgs c.f. t.f dwd. ib. 76 - 78 Trimethryfoloropane bgs c.f. t.f dwd. ib. 76 - 78 Trimethryfoloropane bgs c.f. t.f dwd. ib. 56v2 57 Tripentaerythriot, tanks, frt. add., E. ib. 1.00 - 1 Tripentyfamicot, tanks, frt. add., E. ib. 1.00 - 1 Tripentyfamicot, tanks, frt. add., E. ib. 1.00 - 1 Tripentyfamine, dms., 25-kilo lots. kilo 62.00 65.00 65.00 Tung olt, tanks, frt., ones old, 1.1, works b. 1.285 Turmerfo, Alcopey 6% b. 1.285 Turmerfo, Alcopey 6% b. 1.285		GMS., 1.500-lb tate alud Ba	1.35	-
Triethonolamine, 85%, tanks, dwd. E. ib. 35 .37  98%, tenks, same basis. ib. 35 .37  Triethanolamina leuryi sulfate, tanks, f. 0.b. works. ib. 1.33  Triethytamine, dms., C.I., divd. ib. 1.33  Triethytamine, dms., C.I., divd. ib. 1.30  Triethyt citrats, I.I., drums, f.o.b., works. ib. 1.62  Triethyt phosphata, tanks, dwd. ib. 1.16  Triethytene glycod dipelargonate, lanks 1.0.b. works. ib. 28½  40-60% tanks, 100% basie, irri. equad. ib. 35  Triethytenetevamine tanks, frt. equad. ib. 35  Triethytenetevamine tanks, frt. equad. ib. 35  Triethytenetevamine tanks, frt. equad. ib. 45  Tri-lsophytimelifiate, f.o.b. works ib. 51  Tri-lsophytimelifiate, f.o.b. works ib. 45  Tri-lsophytimelifiate, f.o.b. works ib. 55  Trimathytemine, anhyd., tanks, irri. equald. 100% ib. 25% soin., tanks, irri. equald., 100% ib. 54½  25% soin., tanks, irri. equald., 100% ib. 54½  Dasis. ib. 63½  40% soin., tanks, irri. equald., 100% ib. 56½  Trimathytolpropane trisoryteta, 1.1. dris., frt. equald., 100% ib. 76  Trimethytolpropane trisoryteta, 1.1. dris., frt. equald., 100% ib. 76  Tripentiaerythytiol, tanks, frt. add., E. ib. 1.00  Tripentiaerythytiol, tanks, frt. add., E. ib. 1.00  Tripentiaerythytiol, tanks, frt. add., E. ib. 1.00  Tripentiaerythytiol, tanks, frt. add., E. ib. 1.64  Tisocilum phosphate, dms., 13, frt. equald., 11. works  Tung oll, tanks, tro., New York ib. 31  Tungetic acid 92%%, dms., 1,750  83  Turmerio, Alloppey 5% ib. 83	ļ	Tridecyl alcohol, mixed Isomera, tanka	1.60	1.76
Triethylamine, dms., c.L., divd. ib. 1.33   Triethylamine, dms., c.L., divd. ib. 1.33   Triethylamine, dms., c.L., divd. ib. 1.30   Triethylamine, dms., c.L., divd. ib. 1.30   Triethylamine, dms., c.L., divd. ib. 1.20   Triethylamine, dms., c.L., divd. ib. 1.20   Triethylamine, dms., divd. ib. 1.50   Triethylamine, dms., divd. ib. 1.62   Triethylamine, dms., divd. ib. 1.62   Triethylamine, dms., divd. ib. 1.62   Triethylamine, dms., divd. ib. 1.63   Triethylamine tanks, frt. equald. ib. 35   Triethylamine, dms., divd. ib. 35   Triethylamine, dms., divd. ib. 1.43   Triethylamine, dms., c.l., frt. equald. ib. 1.55   Triethylamine, anhyd., tanks, it.t. equald. ib. 1.55   Trimathylamine, anhyd., tanks, it.t. equald. ib. 57   25% solm, tanks, frt. equald., 100%   basia.   40% solm, tanks, frt. equald., 100%   basia.   40% solm, tanks, frt. equald., 100%   basia.   40% solm, tanks, frt. equald., 100%   basia.   1.56   Trimethylolpropane bgs c.f. 1.1 divd. ib. 78   Trimethylolpropane triacrylate, t.l., dms., t.c., b. 1.50   Tripentiserythritol, tanks, frt. add., E.lb. 1.00   Tripentiserythritol, tank	ı	Triethonolamine 85% tenke about 5 th		97
Triethylamine, dms. c.1, dvd. ib. 1.33 - 1.20 - 1.2		Triethanolamina isund suitate tente		
Triefry citrats, LL, drums, f.o.b., works. B. 1.62 — Triefry citrats, LL, drums, f.o.b., works. B. 1.62 — Triefry phosphata, tanks, dwd. b. 1.16 — Triefry ene glycol, tanks, f.o.b., Gulf b. 47 — Triefry ene glycol dipetargonate, lanks 1.o.b. works. B. 2892 — 40-60% lanks, 100% basie, Irl. equald. B. 35 — Triefry enetetramine tanks, frt. equald. b. 1.43 1.45 — Triefry enetetramine tanks, frt. equald. b. 1.43 1.45 — Triefry enetetramine tanks, frt. equald. b. 1.45 — Triefry enetetramine tanks, frt. equald. b. 1.50 — Triefry enetetramine tanks, frt. equald. b. 57 v2 — afid. E. Triefry enemand enemand. 100% b. 1.1 — guald. 100% b. 1.1 — guald. 100% b. 1.1 — 25% soin., tanks, irl. equald. 100% basia. B. 54v2 — 25% soin., tanks, irl. equald. 100% basia. B. 58v2 57 — Trime fry folgropane bgs cl. 1.1 dwd. b. 78 — Trime fry folgropane bgs cl. 1.1 dwd. b. 78 — Trime fry folgropane tracry leta. t.l. drums. t.c. b. works. B. 1.50 — Triphenyl phosphate, drus., 12, frt. equald. 1.00 — Triphenyl phosphate, drus., 12, frt. b. 1.64 78 — Trisc (hydromethyl) nitromethane, soild. 1.1. works		Triethylamine, driss, c.1, chyd	1.33	.27%
Triethylene glycol dipetargonate, tanks 1.0.b. Gulf ib. A7  Triethylene glycol dipetargonate, tanks 1.0.b. works 1.0.b. works 1.0.b. works 1.0.b. basie, iri. equald 1.0.b. works 1.0.b. works 1.0.b. works 1.0.b. 35  Triethylenetetramine tanks, irt. equald 1b. 1.43 1.45  Tri-tao-tolyl trimelitate, i.0.b. works 1b. 1.51  Tri-tao-tolyl trimelitate, i.0.b. works 1b. 51 .55  Tri-tao-tolyl trimelitate, i.0.b. works 1b. 51 .55  Tri-tao-tolyl trimelitate, i.0.b56  Tri-tao-tolyl trimelitate, i.0.b57 v57  Trimethylernine, anhyd., tanks, iri. equald, 100% 1b57 v57  Trimethylernine, anhyd., tanks, iri. equald, 100% 1b54v54v57  25% soln., tanks, iri. equald, 100% 1b58v57  Trimethylolpropane bgs c.i.1.i dvd. ib78  Trimethylolpropane triaoryleta, t.l50  Trimethylolpropane triaoryleta, t.l50  Tripentaerythritol, tanks, frt. add, E.lb. 1.00  Triphenyl phosphate, dms., 11, frt50  Triphenyl phosphate, dms., 11, frt50  Trisodium phosphate (see Sodium phosphate, tribasio)  Firspolipan, dms, 25-kilo lots . kilo .605  Tung oli, tanks, iri. New York .1b31  Tungetic acid 929%, dms., 1, 750  8,000 ibs., works .1b. 12.85  Turmerio, Alloppey 5% .5083		Triethyl citrate, f.f., drums, f.o.b.,	1.20	-
1.0.b. works b. 10% basie, iri. equald. b. 1.43 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45			1.15	-
equald	١	THEIR GIVCOLDIDE ACCOUNTS Lanks		-
Tri-lao-tolyi trimeilitate, f.o.b. works ib. 51 .55  Tri-lsobutylene, tanks, divd. ib. 45 .55  Tri-lsobutylene, tanks, divd. ib. 45 .55  Tri-lsopropanotamine, dms. c.t., frt. alid. E	-1	equald		-
Tri-sopropanoismine, dms., c.t., frt. alld. E		Tri-iao-tolyi trimelitata fob works ib	1.43	
Trimathylemine, anhyd., tanks, lil. equald., 100% bb. 5442 - 25% sohr, tanks, irt. equald., 100% basia. ib. 6342 - basia. ib. 6342 - basia. ib. 6342 - basia. ib. 5642 - 57 Trimathylolpropane bgs c.f. t.f. dvd. ib. 76 - 77 - 77 - 77 - 77 - 77 - 77 - 77	.	Tri-isopropanojamine, dms. c.1 fet		-
40% soin., tanks, frt. equald., 100% basis.  Trimethylopropare bgs cl. 1.1 divd. ib	-1	Trimathylemine arbud testes to	.57 V≥	-
40% soin., tanks, frt. equald., 100% basis.  Trimethylopropare bgs cl. 1.1 divd. ib	ı	25% solo, tanks in counts 100%		-
Trimethylolpropane bgs cl. 1.1 divd. ib78  Trimethylolpropane trisorylete. t.l. dris., t.o.b. works ib. 1.50  Tripentaerythylol, tanks, frt. alid., E.ib. 1.00  Tripentyl phosphate, dris., t.l., frt. equald ib. 1.84 .78  Tripropylene glycol tanks, t.o.b. ib. 54 .88  Tris-(hydromethyl) nitromethane, solid, 1.1, works ib. 605  Trisodium phosphate (see Sodium phosphate, tribasic)  Tripropylan, dris., 25 kilo lots kilo 62.00 d5.00  Tung oil, tanks, tino, New York ib. 31 33  Tungs tic acid 9292%, dns., 1,750  6,000 ibs., works ib. 12.85  Turmerio, Aliopoey 5% ib. 83		40% soin., tanks, frt. equald., 100% basis.		-
Tripentaerythritot, tanks, frt. alid. E. ib. 1.00 Tripensyl phosphate, dms., 11, frt. equald. 1.00 Tripropylene glycol tanks. (a.b. b. 1.84 .78 Tripropylene glycol tanks. (a.b. b. 64 .88 Tris-(hydromethyl) nitromethane, solid, 1.1. works b. 605 Triscollum phosphate (see Sodium phosphate, tribasio) I-Tryptophan, dms., 25-kilo lots kilo 62.00 65.00 Tung oll, tanks, trip. New York b. 31 .33 Tungstic acid 92%%, dms., 1,750 6,000 ibs., works b. 12.65 Turmerio, Alleppey 5% b. 83		Trimethylotpropane triacrylete + 1	.76	.57 -
ripriestry prosprate, drs., 11, frt. squaid		Tripentaervihitot tanks fr and E in		-
Tris-(hydromethy) hitromethane, solid, 1.l. works		activity		~ 79
Trisodium phosphat8 (see Sodium phosphata, tribasko) Fryptophan, dms, 25-kilo lots kilo 62.00 d5.00 Tung oil, tanks, tmp. New York lb 31 33 Tungs tic acid 921/2%, dms., 1,750 6,000 lbs., works lb. 12.85 Turmerio, Alioppey 6% tb 83	1	Tris-(hydromethyl) nitromethana solid		
Tung oil, tanks, true, New York ib. 31 85.00 Tungstic acid 9292%, dms. 1,750 8,000 ibs., works ib. 12.85 Turmerio, Alloppey 6% ib. 83		Trisodium phosphate (see Sodium phosphet	le, tribask	-
6,000 lbs., works lb. 12.85 - Turmeric, Aleppey 5% lb 83 -	-	Tung oil, tenks, imp New York	2.00	35.00
		O. LAULIOS WORKS II. 4		-
- 400111111 AB. 1 MAR	201			-

ortum nitraje, puriL, dms., 100-ib lots or more, workslb	. 2.75	_	Turmeric, Alleppey over 6% ib. Turpentina, crude sulfate tanks, l.o.b.	.67	-
Threchins, dms 10 kilos wks kilo yme leaves, French, bgs lb	. 128.00	-	Southeast works gal.	.90	1.00
Spaniah, bos	75	-			
yme cil, NF, red, dms kik NF, whita, dms	20.00	_			
ymol NFb. ymol lodide, clms., 100-lbs. f.o.b.			U		
metal (NY composite) ib.	N.A				
inium dioxide, anatass, bgs., 20- toniots, fri, alid	.77	.79	Ultramarine blus pigments, 560- 2,000	4.00	
lurry shipments, 50-ton lote, dry ba- sie, irt. alid	.76	•	lblois, works	1.30 2.20	
nium dioxide, ruille, rea., bos., 20-		-	Umber pigment, burnt, American, frt.	.131/2	.1512
toniots, (rt. alid	.81	.64	raw, American, dom., bgs., l.c.i., sams basis	.131/2	
dry basis, frt. alid	.84 Der poundi	more.	Undecylenic acid, drna., worksb. Urea, 46% N, ind., bulk, Gulf Coast,	2.70	-
nium hydride powd. electronics grada, dms	26.50	_	50-ton o.lton 46% N, agricultural, bargas, f.o.b.	200.00	-
flum tetrachloride, tech., bulk, o.l., (.o.b. works	.30	.35	Gulf Coast, granular ton 48% N, agricultural, 1.o.b. Michvest termi-	75.00	80.00
200-gal cylinders c.t., same basia lo. nium sponge, 89.3%, fiber drums,	.50	-	nais, granularton Uva-Urai leaves, bis	100.00	-
1681 INEN 5,000 IDS. T.O.D.				.22	
wksb. as acid, 2,000 lbs. or moreb.	4.85 2.45	Ξ			
Focopherols, 67%, dms klio Focopheryl acets ia, 61% conc.,	50.06	-	W		
dmskilo ocopheryl acid auccinate, cryat.,	57.48	-			
dmskilo 7 ocopherol, dmskilo.	78.44 27.40	-	No.		
Occopheryl acetate. USP 50-kilo	27.40	-	Valerian root, Seigian, bgs lb. Indian. bgs	.65 .45	.65
dm. 1000 kilo mln kilo. % dry powd., 50-kilo dm kilo	16.00 17.00	16.50	cyls., works	5.40	
palsam, cns	7.60	8.68	of V.O., 550-lb, drist, works, lb		-
Allente, Gs., divdgel. Bayonne, N.J., divdgel.	.70 .70	-	Lieso or fiske, per lb. V.O., 550-	4.10	4.94
Baytown, Tex., f.o.b. gat, Chicago, II. divd. gal,	.70	Ξ	ib. dms., works ib. Vandyke brown, begs., t.J., irt. equald. ib. Vandia beans Medagnesses.	3.35	3.65
Clairion, Pa., f.o.b	.70 .70	Ξ	Java, tins	37.00 27.00	30.00
Deer Park, Tex., f.o.b gal. Ft. Wayne, Ind., divd gal.	.70 .70	-	Imp., dris	6.25 4.75	5.00
Houston, Tex., divd	.76 .70	-	Versiro Ag	.84 60.50	-
New Jersey Metro, divd gal. Philadelphie, Pa., divd gal.	.70 .70		Vetiver oil, Bourbon, dms	63.00 48.00	-
Providence, R.I., divd 6al. le di-isocyanete (mixed isomers),	.70	Ξ	Chinesa	18.00	-
60%, 2.4- and 20% 2.6- isomers.			Jeva	28.50 32.00	Ξ
jumbo tankcare, dvd ib. enesuifonamicie, powd., dms.,	1.01	-	I GMB Ib	6.20	5.30
idins, tech., bulk	3.55 3.10	-	tungsteted, PTA, dmsib. Vinyl acetate monomer, tanks, divd. ib.	10.40 .38	_
icine, tech., liq., dms, c.llb. , same basislb.	.72	.75	orade tanks to h works in	.28	_
idina, 18ch. Cast sold dina.	.60	.64	bots. hospitals.	1.58	
cl.,works	1.60 1.70	1.85	z-v mylpyndine t.t., dms. workskilo.	7.81 7.81	Ξ
i, same basie	1.95	-	Vinytoluena, bulk, t.o.b	.87	.731/2
Same basis	1.03 .95	-	Aunits per gm., 50- kito, lots. kilo Vitamin A, liq. in oil, pharm., 1,000,000 A	33.00	-
Cincinnati, Ohio	2.90	_	units per gram, 10 kilo lots kilo Vitamin A, leed grade, 650,000 units	41.00	-
baens, Angostura, prime, 1,000-lb. lots		-	per gm	18.70	23.65
reine, Offies., C.I., T.I., WORKS R.	8.50 .36		Vitamin Burisea Ribottavin and	Yeast).	
d powder	36.00 12.50	40.00 15.00	(cyanocobalamin), vials 50-		
olirate, 1.l., drums, 1.0.h	.75	-	Vitamin B <sub>12</sub> 1% trituration of cryst. 8	6.00	8.75
phosphate, tanks, works th	1.70 1.55	1.77	ICVERGEOGRAPHIN I ISSUE ITALIA Allest	10.75	12.75
amme, dins., c.l., divdlb.	1.38	-	cum phosphate, 28-kilo dns. kilo. Vitamin 8 <sub>12</sub> , 0.1% trituration of cryst. B <sub>12</sub> (cyanocobetamin USP) with	10.75	12.70
dms. al. l.o.b. works	1.33	-	Vitamin 8., cobalamin concentrate NE	15.60	-
, IVU-ID, OMS., IM, ANIISM III.	.94 .991⁄2	-	With Mannitol 1,000 men nor	10.15	
richiorobenzene, pure, tanks, divdib.	.611/2	_	VILSITATI DIS. 1% VILSMIN B LISP an-	16.45	-
Sumers divd.	401/2		Gramiots frt sitt per gram actuite	15.65	-
works	.42	_	NF, absorbed on regio, 5-kilo		
rolsocyanuric acid. dmsib.	.381/2	-	Vitamin 81. 1% cvenocchelamic in	15.40	-
i Oprienoxysce lic acid (see 2,4,5-T). Ins citrate, 65%, solo , noo- ret	1.40	•	alid	15.40	
dms., 1,500-lb. lots, dwd b. lyl phosphate, tenke, f.o.b.	1.35	-	Vitemin O (see Cholecelcliero)		-
WURKS Ih	1.60	1.76	Vitamin U <sub>2</sub> (see Codiliver and Fishiliver oils). Vitamin E (see a-Tocophero) and Wheet on	m oll	
divd	.57		Viternin H (see Blotin). Violet methyl toner (see Mathyl violet toner)		Į
tenks, same basis	.35 .35	.37 .37	Total Year Manifel Motel 10/191		أييسي
i.o.b. works	.2714	.271/2	14/		
simine, oms., C.I., olvdib.	1.33	-2/1/2	W		ì
works	1.20				
איייטוגאינונט, מארוא אווייטייא אווייטייא אווייטייא	1.62 1.1 <u>6</u>	-	Werfarin 0 5% days 150 150		
ene glycot, tanka, f.o.b. Gul( b. ens glycol dipelargonate, lanks	A7	-	Warfarin 0.5%, dms., ton lots, frt. slid. New York or Chicago lb.	.75	_
0% lanks, 100% hasle let	.281/2	-	COIC-Processed gal.		17.50
equelo	.35 1.43	1.46	dms. foh worke		11 24
utviene, lanks, divd	.51	1.45 .55	Wintergreen oil sur (each Mathed astrona		11.24
ropanolamine, dms., c.t., fri.	.45	-	leaves, bis.	1.35	- 1
IVICIONES. MODVO. 18066 1.4	.67 V2	-	325 mesh, bas., c.i. works 1on 13	1.75 34.00	: [
equald., 100%	.5472	-	high aspect ratio, bga., works ton 16 Wotlastonits, t.l., (.o.b., producing	17.00 34.00	-
soin, tanks, frt equald 100e.	.631/2	-	325 mesh 2010 and 20	0.00	_
yiolpropane bas c.f. 11 duct ib	.561/2 .76	.57	400 mesh 14	00.00	41.00
iyicipropana inacryleta, t.i.	1.50	_	1250 mesh ton 16 1250 mesh ton 50 Wool greats, USP (see Lanoin). Wormseed oil (see Chenopodium oil, NF) Wormwood oil, cae.	00.00	-
perythritol, tanks, frt. alid., E.Ib.	1.00	-	Wormwood oil, Che	11 00	.

c, Allappey over 6% lb. na, crude sulfate tanks, l.o.b.	.67	-	Xylena, petroleum, Ind. or nitration, tanks	-	-
outheast works get.	.90	1.00	Altanta, Ga., d.yd	.76%	
			Bayonna, N.J. divd. gal.	76%	
			Revenne N I to b gal.	.781/2	
			Baylone, N.J. f.o.b 6al.	.7617	
			Baylown, Tex., f.o.b. 8al.	761/2	
			Chicago, III., divd	.7842	
			Clarton, Ps	764	
			F1. Wayne, Ind., divd gel.	784	
			Guil Coast, spot, barges . gal.	.77	-
		بالنابات	Houston, Tex., divdgel.	76%	-
ne blus pigments, 560-2,000			New Jersey Metro, divd	7612	
-lois, workslb.	1.30	-	nyene percent inc or nitelan less.	011	-
same basis	2.20	-	THROUGHASS, PR., COM AND	1.38	
gmant, burnt, American, frt.			FIOVINEICE, R.L. CHAFT AND	1.42	-
ualdb.	.13%	.151/2		1.37	•
merican, dom., bgs., l.c.i.,			I III O YICI RE, MIGH PURITY IANKE I O h		-
ms basis	.131/2	.14%	I CKEN CATV TRY	-36	
nic acid, dma., worksb.	2.70	_	VATURE UTIKS WYSKS	.13%	-
% N, Ind., bulk, Gulf Coast,			PAYIUHO, LANKS, OWO	.19	-
ton o.lton	200.00	_	III. Aylenaoismina, dma. 11 fob	.10	-
agricultural, barges, f.o.b.				1.70	
of Coast, granular ton	75.00	80.00	I STYNYMUMEL THEOLOGY OF THE CALL		-
pricultural, 7.o.b. Michves1termi-				1.50	
s, granularton	100.00	_	Ayronids, 112Aeg, 0-171-0 (9738 C   4		-
eaves, bis	.22	_	l.o.b. works	1.00	
				1.00	
			Y		
ot, Seigian, bgs ib.	.65 .45	.65	Yara yara, 25-lb. cns	2.61	-
oxylrichiorids, 3,000 lb.			Charomycas, th. oh works th	4.40	
., worksb.	5.40	_	Yerbs, santa leaves, bis	1.10	-
sentoxide, tech., gran., per lb.			axtra, bots.	2.40	

anto-line of the tee ID.	0.20	_		
lb.	4.75	5.00		
.,,b.	.84	-		
ate, dms kto	60.50	-		
· · · · · · · · · · · · · · · ·	63.00	_		
urbon. dmslb.	48.00	_		
lb.	18.00			
b.	28.50	_		_
klo	32.00	-	Zein, bga., 2,000-ib. lots	7.50
oners, molybdated, PMA	02.00	-	Zinc acetate, NF, dms b.	1.00
b.	0.00		tech., dihydrats, bga , 1.1, works. lb.	1.60
PTA, dmslb.	6.20	5.30	Zinc borate, tach., 43% ZnO, 37%	
Monomor tenles died in	10.40	-	B <sub>2</sub> O <sub>3</sub> , 50-lb. bgs., 20,000-lb. 1.1.	
monomer, tanks, divd.lb.	.38	-	I.o.b. works	.85
a monomer, polymer			cryst , 37% ZnO, 49% 8,03, 250 lb.	.00
tanks, t.o.b. works b.	.28	-	dry 20 000 he all lab.	**
JSP, anesthesia, 75-cc.			dms. 20,000 lbs. 1 L l.o.b. wks. fb.	.89
nospitaisbols.	1.56	_	Zinc chloride, USP, gran., dms kilo	9.79
et.f., dms. workskilo.	7.61	_	Zinc chlorida, tech., soin, 50%,	
sklo.	7.81	_	tanks, I.o.b. Cleveland,	
oulk, t.o.b lb.	.87	.731/2	Ohlo 100 lbs.	20.20
hetic, dry, pharm., 500,000	.07	.7072	Concord, N.C 100 lbs.	20.20
par gm., 50- kto. lots . ktlo	33.00		Freeport, Tax 1001bs.	20.20
n oil, pharm., 1,000,000 A	33.00	-	Old Bridge, N.J 100 lbs.	20.20
er gram, 10 kfolots kdo	44.00		65 degree, same basis Cleveland,	20.20
or orada CEO COO	41.00	-	Ohlo 100 lbs.	27.90
ed grade, 650,000 units			Concord N.C. 100kg.	27.90
. This kilo.	18.70	23.65	Concord, N.C 100lbs.	
e Thiamine hydrochlorida).			Old Bridge, N.J t00 lbs.	27.90
tamin B <sub>I2</sub> (see Ribotlavin ar	id Yeas().		70 degree, same basis Cloveland,	
cryst., non-sterile, USP			Ohio 100 lbs.	29.70
cobalamin), vials, 50-			Concord, NC 100 lbs.	29.70
018 Oram	6.00	8.75	Old Bridge, NJ 100 lbs.	29.70
trituration of cryst. 8			72 degree, sama basis Clevaland,	
Obalamin USP) with cical.			Ohlo 100 lbs.	33.20
losphate, 25-kilo dms. kilo	10.75	12.75	Concord, NC 100 lbs.	33.20
.1% trituration of cryst.		16.70	Old Bridgs, NJ 100 lbs.	33.20
anachalanta Lines			The state of the s	

), vials, 50-			Concord, NC 100 bs.	29.70	
arem	6.00	8.75	Old Bridge, NJ 100 lbs.	29.70	
of cryst. 812	0.00	0.70	72 degree, sama basis Clavaland,		
SP) with cical-			Ohlo 1001bs.	33.20	
-kilo dms. kilo.	10.75	12.75	Concord, NC 100 lbs.	33.20	
tion of cryst.	10.75	12.70	.ed 001 LN spbhB blo	33.20	
th USP) with			Zinc chromate, bgs., divd ib.	1.12	
imskilo.	15.60		Zinc cysnida, dms., c.L lo.	1.85	
ncentrate NF	13.00	-	Zincdualpigment type 1 & 2, dms., c.l.,		
00 mcg, per			f.o.b. plant	.59	
gram activity	16.45		Zinc athylonediamine tetracetic acid,	.42	
B <sub>12</sub> , U6P, 8b-	10.40	-	8.4% Zn., ammonis sali spin.,		
do dms., 600-			t.C., 1. 1., (o.b. works lb.	.56	
er gram activity	15.65		9% Zn., ammonis ask soin., t.c., t.t.,		
concentrate.	15.65	-		.46	
resin, 5-kilo			f.o.b. works	.40	
	12.40		Zinc fluoboreta, liq. conc., dma., I.L.	.66	
ram activity cobelamin in	15.40	-	works, frL equald	.47	
			Zino metal, high grade, divd ib.	.41	
dms., tri.	4=		Zinc naphthonale, liq. 6% Zn, dms.,	.95	
gram activity	15.40	-	divd	.34	
cid).			Zinc nitrata, lech., flake 300-lb. dms b.	.37	
lerol)			Zino oxide photo conductive, bgs., o.i.,	.60	
nd Fishliver oils	<b>.</b>		fri. alid	.00	
rol and Wheel g	erm oil).		Zinc oxido, USP 50-lb. bxs., c.L. frt.	.59	
atherical and a second			aldib.	.00	
athyl vlotet toner)			Zing oxide pigment, Amorican process.	.57	
يديدوا	نيركننك	فالمراكب الأراك	lead-frae bgs., c.l., (rt. eld lb.	.07	
			Zinc oxide pigment, French process	.56	•
			regular, bgs., c.L, fri. aldlb.	.00	
			Zinc phenolautionate, purif., oran.,		

AAA MAIN (989 CEICITH CS DOUBSE)		
Wintergreen oil, syn. (see Mathyl selicy) Witch hazel bark, bis		
Witch based bent Lit. 1000 Mistriyi Baticyi	<b>216)</b> .	
THUSITIRAZEI DEITK, DIS.	1.35	
	1.00	-
ACC meets been all	1.75	-
400 mesh, bge., c.l. works ion	134.00	_
	117.00	_
	117.00	-
high aspect ratio, bga., works ton	164.00	_
	***	
plani. general grade ton	200.00	-
400 mask 100	140.00	141 00
		171.00
	100.00	-
Wool greens trop	500.00	-
	•	
Wormwood oll case	7	
D.	31.00	
325 mesh. ton 400 mesh. ton 1250 mesh ton Wool greats, USP (see Lanolin), Wormseed oil (see Chenopodium oil, NF Wormwood oil, cne. ib.	140.00 160.00 500.00	141.00

440	mwbod cil, cheb.	31.00	
			•
Xan	then gum, lood 300-lb. dms., Lo.b.		
ı	works b. ind. grade, same basis b.	5.65 4.54	6.20

	Chicago, III., divd		h _
	Claiton, Ps. 96 F1. Wayne, Ind., davd. 98 Guif Coast, spot, barges 9	u76 d76 d77	<u>لا</u> _
	New Jersey Metro doub	. 76	h _
-	Xylena, petroleum, Ind. or nitration, is Philadeiphis, Pa., divd	d. 1.38	
.151⁄2	m-Xylane, high purity tanks to	1.37	:
.14%	o-Xylena, tanks, works	38	-
_	m-Xylenadismina. dms. 11 (o)	19	• :
80.00	2,4-Xylidino, tech., lig., ct. 11 for	. 1.70	-
	workslb Xylidinas, mixed, o-m-p., dma., c.i., t.i I.o.b. works		-
		1.00	
	<u>Y</u>		
.65	Yara yara, 25-lb. cns	4 40	-
-	axtra, bots	2.40	31.75
4.94	arade 1 ib.	36.80 25.00	-
3.65	grade 2 ib.	25.00 22.00	-
30.00			
5.00	7		
-			
:			
=	Zein, bga., 2,000-ib. lots ib. Zinc acetate, NF, dms ib.	7.50 1.00	9.30 1.76
5.30	Zinc borate, tach 43% 7nO 37%	1.60	-
-	B <sub>2</sub> O <sub>3</sub> , 50-lb. bgs., 20,000-lb. 1.1., l.o.b. works	.85	-
-	dms. 20,000 lbs. 1.L l.o.b. wks. lb. Zinc chloride, USP, gran., dms kie	.89 9.79	-
Ξ	lanks. Lob. Claveland	0.15	
.731/2	Ohio	20.20	Ξ
-	Old Divida, (Y.J 100 IDS.	20.20	-
-	Ohio samo basis Cleveland,	27.90	-
23.65	Concord, N.C. 100 lbs. Old Bridge, N.J. t00 lbs.	27.90 27.90	Ξ
		29.70	-
8.75	Ohio 100 bs. Concord, NC 100 bs. Old Bridge, NJ 100 bs.	29.70 29.70	-
10.70	72 degree, same besis Clavaland, Ohlo	33.20 33.20	-
12.75	1 ZING CHICKTHEIR, DOS., divd	33.20 1.12	Ξ.
-	Zinc dual pigment type 1 & 2, dms., c.l.,	1.65	2.14
_	Zinc athylonediamine tetracetic acid,	.59	.67
	8.4% Zn., ammonie sali spin., t.c., 1.1., (o.b. worksib.	.56	-
•	9% Zn., ammonis aak soin., t.c., L.t., f.o.b. works	.46	-
-	Zinc fluoticreta, liq. conc., dma., I.i., works, frt. equald	.66 .47	- .50
	Zino naphthonate, liq. 6% Zn, dms., divd	.95	
	Zino oxide phote conductive, bgs., o.i.,	.34	.36 .80
	Zinc oxido, USP 50-lb. bxs., c.L. fri.	.60 .58	.85
	Zino oxids pigment, American process, lead-free bgs., c.l., (rt. eld lb.	.57	.59
	regular box. c.l. fri. aldlb.	.56	.66%
	Zinc phenolaulionate, purif., gran., 250-lb, dma., t.)., frt. eld lb. Zinc pyridinelhione, 46% dispersion,	1.82	-
	I DIMS., I.D.D. WOOKS	6.50 14.50	8.90
	Industriel grads	.45	
- 17.60	Zinc silicofluorids, dms., c.f., 1.l.,	.17	.2850
	works	.92	1.06
t1.24	dust. grade 36% Zn., bga, o.k., works. 100 bs. agricultural grade powd., bulk.	30.00	32.00
-	OQUING DESIGN IVVIIVS-	26.50	-
-	Zinc yallow (see Zinc chromete). Zinc-ammonium chloride, bgs., o.i.,	.42	-
-	works ib. Zinc undecylenate, dms., works ib. Zinc-formaldetryde sulfoxylats, basic	4.87	4.70
11.00	Zircon gran, bos., bulk o.l., works, ton	1.05 185.00	177.00
	Zircon milled bgs., 200 and 325 mesh, c.l., works	225.00	-
	CJ., 30,000 lbs. min., Worxs lb.	97 78	-
<u>-</u>	Zirconium hydride, powd., electronic	.76	
.	grade, dms., works lb. Zirconium oxide, powd., comi., dms 2 000 hs mn		,
	2,000 ibs. min ib. electronic, same basis ib. insutating, stabilized, 325°F same		6.82
	basis. insulating, unstablized, 326°F same	3,31	375
		3 400 * *	

US imports of chemicals and related materials are reported in this section by CPI material. Listings include consignee where possible, container, net weight, name of vessel (in parenthesis), port of origin and date of shipment's arrival in New York or the Port of Newark.

us chemical imports/exports are tabulated monthly in the market reports.

C-D -

AB6 REGIN Marubert America 16 pl1 (38685 lbs) (Ever Goldan Kachalung, 11/14. ACETAMINOPHEN USP CRYSTAL Sterling Organics 242

dms (42414 lbs) (Alientic Concert) Liverpool, 11/11. ETOACT 2 5 OIMETHOXY 4 CLANILI Lonze 60 bga (2844 lbs) (Koin Express) Bremerhaven, 11/18. (Vishya Pallay) Laghom, 11/24. ETYL CHLORIDE Pan American Container 74 Pkg

(38707 lbs) (Affantic Concert) Liverpool, 11/11. DD ORANGE Golf & Page 40 dme (5071 lbs) )Alva ACRYLICE 6 T Selec 21 cs (37652 lbs) [Ming Universe] Keelung, 11/22.
ACRYLIC AND METHACRYLIC ACIO Mobil 80 dma

(40036 bs) (Ming Universe) Yokohama, 11/22. ACRYLIC MONOMERS MET HACRYLATES Choil Amer-ka 80 dms (35626 lbs) (Ming Universe) Kobe, 11/22. ACRYATEO CARBON Degussa 800 bgs )26884 tbs) (Koh Express) Bremerhaven, 11/18. AGAR AGAR Carregeenan Products Intl 323 dms (34504 bs) (Colombo) Cadiz, 11/24. AUNATE PROTANAL Protan Scolle Marine 496 dms

(22436 lbs) (Atlantic Service) Bremerhaven, 11/12. ALLOPURINOL VALPORIC ACIO Allirensport 63 pkg (11003 ibs) (Atlantic Service) LeHevre, 11/12. ILLSPCEAA Seyle 160 bge (2011 1 lbs) (Sen Pedro) Sto

Tomas, 11/21 SUMINA CALCINED GAMMA SO Roder 334 dms (24886 lbs) (See Lend Adventur) Algectes, 11/20. ALLIMINUM FLAKE BLUE 25 dms (2762 lbs) (Koin Ex

press) Hamburg, 1 1/1B. AUMINUM OXIDE Asshi Chemical Ind America 6 dms (189 lbs) (Zim Tokyo) Yokohenia, 11/26. Lee 50 bgs (5209 lbs) (Koin Express) Hemburg, 11/18. hPS inti 12 pl1(38678 lbs) (Zim Tokyo) Oaake, 11/26. Degussa 2 bks (66332 tbs) (Alve Meersk) Marcelle 11/16.

LUMINUMPASTE M OBoth Ind 53 dms 10 lbs) (See Land Voyager) Bramerhavan, 11/28. Reveil Chemicals 360 dma (43016 tbs) (Alve Maersk)

Dubel, 11/18. ALUMINUM POTASSIUM SULFATE A M See & Air Seivice 720 bgs (40834 lbs) [Ever Going) Foliastowe, MINOBENZOTRIAZOL Mobay Chemical 4 dms(1071ibs

Sirsthoonon) Rollerdem. 11/25.

MMONIUM BIFLUORIDE Kall Chemie 782 bgs (41128) ba)(Alleniic Service) Bremerhaven, 11/12. MMONIUM OICHROMATE 240 dms (86643 lbs) (See Land Developer) Bremerhaven, 11/23.

AMMONIUM PERSULFATE Milisublehi inti 1520 bgs (107091 fbs) (Ever Leurel) Tokyo, 11/19. MANONIUM THIOCYANATE Akzo Chemie 840 bgs (36655 lbs) (Heide) Hemburg, 11/18. AMPCILIN TRIHYDRATE F C Gerlach 109 kgs (6915

lbs] (Allentic Concert) Liverpool, 11/11.
AMYL BUTYRATE 5 dms (2148 lbs) (Oert Americana) Faixstows, 11/20. ANTENONY TRIOXIDE Minmetals 34 pkg (77955 lbe

(Figine Meersk) Hang Kong, 11/18.
ARABIC GUM Freetrada Confainer Lines 643 bgs
(110649 lbs) (Ceilfornia Ster) Antwerp, 11/22.
Kuehne & Nagel 40 bgs (2249 lbs) (Helde) Hamburg.

11/19.

BALSAM TOLU Accelerated Shpg 42 dme (5146 lbs) (Atlantic Concert) Liverpool, 11/11.

BARIUM GARBONATE Meerten Informodal Expeditor
700 bgs (39198 lbs) (Regine Maerek) Hong Kong. BARIUM CHLORIOE Cometels 4080 bgs (226668 fbs)

(Regina Meersk) Kobe, 11/18.
8ARIJM HYOROXIDE MONOHYDRATE Ore & Chamica 700 bgs (39700 lbs) (6 tefan Sjerzynskij Retierdam

8ARIUM MONOHYDRATE & EMPTY BAS Ore & Chemi-cai 707 bgs (36700 lbs) (Bjefan 8 (erzynski) Rotler-dem, 1 1/26. BEESWAX Mohawk Customs Service 190 bgs (22462 bs) (Strathcoron) LeHavre, 11/25.
6ENZENE SULPHONIC ACIO 221 dme (27262 fbs)

(Strathconon) Bremerheven, 11/26. SENZOYL CHLORIDE Stoll Tank Containers 1 tnk (41491 CS) (Ever Going) Felix slowe, 11/23.
6ENZYL ALCOHOL Monach Chamicals 90 dme (43851 lbs) (Colombo) Bercelona, 11/24.
CDF Chimle 1 bks (41050 lbs) (Stelan Bisrzynski) LeHavrs, 11/26.
8ENZYL CYANIOE Inter Meritims Fwdg 1 con (52712 lbs) (Electronic Chamical Stelans 11/17)

(Ever Guard) Aniwerp, 11/17. arborough Chemicala 2 tok (84568 lbs) (Atlantio Con-

BENZYL SALICYLATE 17 dme (9145 lbe) (Britte Thien) TER OR ANGE OIL Berje Intl 1 trik (400 lbs) (San Pedro Heina, 11/21. BLACK PEPPER 12 dms (0 fbs) (Vishva Pallav) Cochin,

BLACK PEPPER OLEORESIN Meer 80 pkg (2428 10a) BLACK PEPPER OLEORESIN Meer 60 pkg (2426 fba)
(Vishva Pallev) Cochin, 11/24.

BLANC FIXE POWDER Ore & Chemical 21 pkg (41530 fbs) (Atlentic Concert) Antwerp, 11/11.

700 bgs (39700 fbs) (Ever Going) Antwerp, 11/23.

700 bgs (39700 fbs) (Stefan Blarzynski) Rolferdam, 11/26.

Ore & Chemical 546 bgs (30546 fbs) (Stefan Blarzynski) Rolferdam, 11/26.

BLUE POPPY SEED Gel Bpice 880 bgs (440022 fbs) (0stlornie 8tar) Rolferdam, 11/22.

Transit Trog 860 bgs (44002 fbs) (Stefan Starzynski): Rolferdam, 11/26.

BORIC ACID Ericheri Americas 80 fcms (28748 fbs) (Colombo) Leghorn, 11/24.

3,31 3,82

3.56 3.76 · 2.82

basis. Ib.
insulating, unstabitized, 326°F same
basis. Ib.
dense, stabilized, 30F, same basis. Ib.
Zirconium oxychloride, Eq.; cins. 5-ton
lofs, works. Ib.

BRAZILIAN CLOVES Morris J Golomback 200 bg (22266 ba) (Sente Ceterina) Sentos, 11/17. BRAZILIAN CORNMINT OIL A J Fritz 30 dms (13219 ba (Santa Catarine) Italei, 11/17.

BROMAMINE ACID Silvey Shog 48 dma (8032 lbs) (Evel Leurel) Hong Kong, 11/18 BROMAMINIC ACID SODIUM SALT MW40 Berno Shog 114 dms (17341 lbs) (Ming Universe) Kobe, 11/22 BUTANEDIOL 1 bke (668864 lbs) (Stolt Avenir) Antwer

11/23. BUTYLENE GLYCOL Brenntag Interchem 1 con (4299 lbs) (Cellomie Star, Bremon, 11/22.

C ACIO Alba Fwdg 480 bgs (29535 lbs) (Ming Universe Yokohame, 11/22. CADMIUM LITHOPONE PIGMENT Leyden Customs Ex-

pediters 40 dms (8554 lbs) (Ming Universe) Yoko-hema, 11/22. CALCIUM ICD Group 2397 dme (2082123 lbs) (Novovolynsk) Leningred. 11/20 CALCIUM CASEINATE On Zeen 600 bgs (44771 lbs)

(Ever Guerd Rotterdem, 11/17. De Zaan 1200 bgs (40596 lbs) (Ever Guerd) Rotterdam

11/17.
800 bg8 (20384 lba) (Ever Going) Rofterdem, 11/23.
CALCIUM FLUORIOE F W Myere 64 dme )18831 lba)
(Regine Maersk) Kobe, 11/18.
CALCIUM HYPOCHLORITE ICD Group 333 dms (38707 lbs) (Zim Tokyo) Yokohema, 11/26.
CALCIUM LACTATE PENTAHYDRATE 430 bga )21521 ibs) (Ming Universe) Kobe, 11/22. CAPROIC ACIO Ecce Freight Systems 20 dms (6907 lbs) (Dert Atlentica) Antwerp, 11/28.

CAPROLACTAM 1 bks )3319438 lbs/ (Stolt Avenir

Antwerp, 11/23. CARAWAY OIL Careven Products 10 dms (1224 lbs) (Der Americane/ Antwerp. 11/20.
CARBON GRAPHITE Gunze New York 34 pkg (26763 lbs) (Regins Meersk) Kobs. 11/18.
CARRACEENAN Meer 80 dms (7011 lbs) (Colom

Cadiz, 11/24.

CASEIN Adambs Imports Intl 400 bgs (44082 lbs) (Stetan Starzyniski) Bremorhaven, 11/26.

CASEINATE Omega Warehousing 720 bgs )37171 lbs/ (Sea Lend Voyager) Rotterdam, 11/26

CASSIA Osernhouver 299 bgs )33069 lbs/ )Seudi Dirlyeh)

Singapore, t1/26. OMT 21S bgs (33069 lbs) (Seudi Dinyah) Singapore

11/26. CASSIA OfL Ven De Vrige Trog 224 ca ) 26652 lbs) (Held CASSIA VERA Qaarnhouwer 51S bgs (B8138 ibs) (Beudi Dirtyah) Singapore, 11/26. CAUSTIC SODA 1 bks (13550674 ibs) (Stoff Avenir)

Antwep, 11/23.
CELLULOSE POWDER Militzer & Muench 374 bgs (25084 ibst) Strathconon; Rotterdam, 11/25.
CETYL ALCOHOL FLAKES Genery Warehouse 982 bgs
(43949 ibst) (Strathconon; Rotterdam, 11/25.
CHINA CLAY Hammil & Gillespia 1800 bgs (69890 ibs)

CHINA CLAY Hammil & Gillespia 1800 bgs (19980 lb6)
(Ever Guard) Felix stowe, 11/17.
CHLORAL HYDRATE Jegro Cuetom House Brokers 50
bri (3536 lbs) (Koln Express) Hemburg, 11/18.
CHLORHEXIDINE O'GLUCCONATE Scantreight 13 dms
(5986 lbs) (Atlantic Concert) Gothenburg, 11/11.
CHLORINE ORY BLEACH (SOCY ANURICS Olin 118 dms

CHLORINE ORY BLEACH SOCY ANURICS clin 116 data (34078 lbs) (Catiornia Btar) Fettvetowe, 11/22.

118 kge (34079 lbs) (Catiornia Btar) Fatvatowe, 11/22.

CHLORTETRACYCUNE Pan American Container 120 date (514 lbs) (Cotombo) Ganoa, 11/24.

CHOLESTEROL TECHNICAL Amerchol 20 data (2466 lbs) (Ever Gather) Oseke, 11/25.

CRUCE BLUE Jamas E Fox 1800 bgs (61664 lbs) (Ming Universe) Yokohams, 11/22.
CUPROUS THIOCYANATE Plusss Stauffer 800 bgs (34948 lbs) (Ever Going) Felixetowe, 11/23.
CYANURIC CHLORIOE Deguses 180 dms (43254 lbs)

GYANURIC CHLORICE Deguses 180 dms (43254 lbs)
(Koh Exprese) Antwerp, 11/18.
180 dms (43264 lbs) (Oarl Allamica) Antwerp, 11/26.
Lonza 320 dms (40071 lbs) (Koin Express) Bremerhaven, 11/18.
320 dms (40071 lbs) (Sea Land Oeveloper) Rotterdam,
11/23.

DEXTROSE Inti Cuetoms Service 420 bgs (42307 lbs) (Sea Land Voyager) Rotterdam, 11/26.
DEXTROSE MONOHYDRATE Ce De Candy 3605 bge (40159 lbs) (Helde) Rollerdam, 11/19.
DIACETONE ALCOHOL 80 dms (S7170 lbs) (Ever Sum

mit) Fos. 11/18.
DIALKYL PENTASULFIDE Mobsy Chemical 36 pkg (15432 lbs) (Ever Going) Antwerp, 11/23.

CIAMINO TRIMETHYL BZ SULFONIC AC Bemo Shpg 30 dms (2315 lbs) (Ming Universe) Kobe, 11/22.

DIAMINO ANISOLE Mobay Chemical 20 dms (9744 lbs)

DIAMINO ANISULE Moby Charles (Strahopon) Rotterdam, 11/26.

DIANISIONE HYDROCHLORIOE Nagase America 190 dms (31464 lbs) (Ming Univest) Kobe, 11/22.

DIBROMO PHENYL GLYCIOYL ETHER Nichiman 1 dms (489 bs) (Regina Maerak) Nobe, 11/19.

OICHLOROANILINE Mobey Chemical 16 dms (5476 lbs) (Btratisonon) Rotterdam, 11/26.

OICHLORODIFLUOROMETHANE Kall Chemie 2 ink (7825 lbs) (Colombo) Barcelons, 11/24.

DICYANOIAMDE 782 bgs (40124 lbs) (Ever Golng) Hamburg, 11/23.

Scan Stop 420 bgs (43089 lbs) (Stelan Sterzynski) Bremerhaven, 11/26.

30 pti (43089 lbs) (Heids) Bremerhaven, 11/18.

OIETHYL PHTHALATE PERMUME Rhone Poulanc 72 dms (40953 lbs) (Stratisonon) Leilavré, 11/26.

DIETHYLENETRIAMINE Treipak 1 con (42549 lbs) (Calliornal Ster) Rotterdam, 11/22.

DIMETHYL HYDROZYLATE 1 bka (3308351 lbs) (Bioft Avenir) Rollerdam, 11/23. DIMETHYL MALONATE Dynamii Nobel 152 bri (73052 ibs) (Staten Starzynski) Bramarhavan, 11/26. DIMETHYL SULFOXIDE DM5D 3 con (128969 lbs) (Ever

Summit) Fos, 11/16. DIMETHYLETHYLAMINE 124 dma (42606 lbs) (Ever Summit) Fos, 11/19. IPHENYL METHANE DIISOCYANATE Nettles 60 dms

(28439 lbs) (California Star) LeHavrs, 11/22. HIDBISMORPHOLINE Mobay Chemical 80 ptgs ) 2200 lbs) (Ever Going) Antwerp, 11/23. DODECYLBENZENE 1 bks (1364178 lbs) (Stolt Avanir) Rotterdam, 11/23.

EPOXYPHENOLIC NOVOLAC RESIN Ciba Geigy 72 dma (39207 lbs) (Strethconon) Felixatowe, 11/25. EPOXY RESIN Ciba Geigy 531 ctr (31140 lba) (Regine

H & C Ind 750 bgs (37649 lbs) (Ever Laurel) Keelung, THANOL Whitebread North America 4 trik (151247 lbs)

(Koh Express) Greenock, 11/18. ETHYL ALCOHOL H & M General Trucking 43 ctn (1803) lba) (Attantic Concert) Livarpool, 11/11. ETHYL CYANOACETATE Bamo Shpg 60 dma (39863 lbs)

(Ming Universe) Kobe, 11/22. THYL SDDIUM OXALACETATE American Cyanamid ETHYL SIDDIUM OXALACETATE American Cyanamio 234 dms [54693 ibs] (Ever Guerd) LeHevre, 11/17. ETHYLENE CARBONATE Senyo 65 dms (36551 ibs) (Ever Golden) Oseks, 11/14. ETHYLENE GLYCOL MONOBUTYL ETHER R T Vender-

ETHYLENE GLYCOL MONOBOTTLE HER HIT VANDAL-bilt 4 mix [562 lbs) (Britis Thian) Rotterdem, 11/26. FAST SCARLET G BASE Amaax 200 dms (13226 lbs) ) Regina Maeraki, Kobe, 11/15. FASTOGEN BLUE KC ETC Alba Fwdg 1820 bgs (68908 lbs) (Zim Tokyo) Yokohams, 11/26. FERRIC CHLORIDE HEXAHYDRATE Voteiner Consol-FERRIC CHLORIDE HEXAHYDRATE Voteiner Consol-

dation Servi 30 dms (6916 lbs) (Koln Express) Rotterdem, 11/16.
FERROUS SULFATE George Uhe 383 bgs (40333 lbs)
(Ever Guerd) Hemburg, 11/17.
165 mk (45556 lbs) (Ever Guerd) Hamburg, t 1/17.
FtSH OIL Ariste Ind 160 dme (73369 lbs) (Bnite Thien)

Rotlerdam, 11/28. Phormacaps 50 dms (22928 lbs) (Attantic Concert)

Cothenburg, 11/11.

Trenscontinental Transport S 40 dms (17801 lbs0 (Allantic Concert) Gothenburg, 11/11

FLUOROCARBON F 112 50 dme )36268 lbs) (Ming Unverse) Koba, 11/22.

GELATINE Corbett Init 44 dme )10221 lbs) (Independent

ence) Marzeille, 11/16. O C Lugo 16 pkg (4769 lbs) (Koln Express) Greenock

CERANIDL 38 dins (15695 lbsf (Brille Thien) Rotterdem GERANYL ACETATE 2 dime (898 lbs) )Britte Thion) Rot-

lerdam, 11/26 GINGER CHUNKS Something Bettor 20 cln (0 lbs) (Ever Golden Singapors. 11/14. GLYCERIN Life Severs 1 tilk (43343 lbs) [See Land Voy-ager) Rotterdam. 11/26 Crode Chemical 3 con )131571 lbs) (California Star)

Falixstows, 11/22 Life Savers 2 tak (89022 lbs) (See Land Davdloper

Rollerdam, 11/23 1 bks )656834 lbs))Stoll Avenir) Rotterdeni, 11/23 GRAPHITE Asbury Graphile Mille 900 bgs )122108 lbs) (Vishve Pellev) Colombo. 11/24 Lonze 1440 bgs (82630 lbs) )Sea Land Osveloper) Rot terdam, 11/23.

GUANIDINE HYDROCHLORIDE 990 bgs )80556 lba)

)Ever Going) Hemburg, 11/23 GUAR GUM HI Tak Polymers 720 bgs )40000 lbsf (Vishwa Pallev/ Algeciras, 11/24.
Tic Cums 1800 bgs (81200 lbs) (Vishve Pallev) Alge

cirss, 11/24.

cirss, 11/24.

Hi Tak Polymers 720 bgs )40000 lbs) [Vishva Pallav)
Algecras, 11/24.

GUM COPAL Centrel Indonesian Trdg 112 bgs )17 g1g1bs/
(Ssudi Riyadh/ Singapore, 11/25.

CUM DAMAR BATU S Whiterboums 392 bgs )82718 lbs) (Saudi Riyadh) Singapore, 11/25. 4 ROSIN PDM 440 bgs )49604 lbst [Koln Express

Rotterdam, 11/18. Ping Derivatives Marketing 630 bgs (34722 lbs/)0an Atlantica) Antwerp. 11/26.

ENNA POWDER Freeport Trade Mart 3 cs (414 fbs) (Sea Land Developer) Rotterdam, 11/23.
HIDE GLUE Goff & Page 400 bgs (40124 lbs) (Sant

Cetarina) Santos, 11/17. Taub & Carmel 350 bgs (39842 ibs) (Santa Catarina Bentos, 11/17.
HUNGARIAN PAPRIKA Inti Brokera 312 bgs (34804 tbs)
(Steian Starzynski) Bremerhaven, 11/26.
HYOROFLUORIC ACID Lesohaso 1 ink (33961 tbs)

(Birathconon) Bremerheven, 11/25. New Wave Transport 72 dms (38810 lbs) (Zim Tokyo) Osaks, 11/26. YOROGEN PEROXIOE Degussa 152 dms (79586 lbs

(Koin Express) Antwerp, 11/16. (YDROQUINONE Rhone Poulenc 200 dme (23651 lbs (independence) Marseille, 11/16. Mileul 720 bgs (41023 bs) (Ming Universe) Kobe, 11,

Mitsul 176 dms (42970 lbs) [Ming Universe) Kobs, 11

22.
HYOROXYL POLYESTER POLYETHER Mobay Chemical 2 pkg (948 lbs) [Ever Going) Antwerp, 11/23.
HYOROXYL POLYETHER POLYOL BLENO Mobay Chemical 1 pkg (474 lbs) (Ever Going) Antwerp, 11/23.
HYDROXYL AMMINE ON FAZETA

11/23.
HYDROXYLAMINE SULFA7E Virginis Chemicals 720 bgs (40992 bs) (Californis Star) Rotterdam, /11.22
BUPROFEN USP Mittelbish Intl 97 dms (11548 tps) (Regina Maerak) Tokyo, 11/15. Interner Steamship 81 dms (65729bs) (6trathconon) LeHavre, 11/25. MINODIACETIC ACID Mayoro ind 64 dms (12037 lbs)

MINODIACETIC ACID Maypro ind 84 dms (12037 lbs) (Ming Universe) Kobs, 11/22
INSUUN E R Squibb & Sons 20 pt (26650 lbs) (Sea Land Voyager) Bremerhaven, 11/26.
IRON BLUE PIGMENT Dainichteelee Color & Chemip 2000 bgs (103681 lbs) (Ming Universe) Yokohama, 11/22, IRON OXIOE Orgo Thermit, 86 dms (77505 lbs) (Ever Guard) Antiverp, 11/17.
84 mix (98707 lbs) (Ever Going) Antiverp, 11/23.
ISOPHORONE 80 dms (37170 lbs) (Independence) Mariesille, 11/16.
ISOPHORONE OIAMINE Leschisco 50 csn (3042 lbs) (Brathoonori) Bremshaven, 11/25.
ISOPHORONE OIROCYANATE Nuodex 400 bgs (18157 lbs) (Strathoonor) Rolleidem, 11/25, lbs) (Strathoonor) Rolleidem, 11/25,

ACID Leyden Custome Expediters 280 ctn (32872 lbs) (Regina Mearsk) Hong Kong, 1)/16. KARAYA GUM Meer 180 bgs (19952 fbs) (Sea Lend Oc-

veloper) Rotterdam, 17/23. EPHEDRINE HCL Ganes Chemical 200 ctn (12787 lbs/ (Regina Maersk) Hong Kong, 11/16. LACTIC ACt0 UCB Freight Service 134 d/ne (0 lbs) (Soc Land Adventur) Algedras, 11/20. LACTOSE Barrisk Chemical 288 d/ms (26603 lbs) (Ever

Gusid) Rotterdam, 11/17. LAMPONG BLACK PEPPER Aquetran 200 bgs (27556 ibs) (Saudi Diriyeh) Singeporo, 11/26. LAVANDIN OIL 78 dms (36956 ibs) (indepo

11/18.

108 pkg [24407 lbs] (Independence) Fos, 11/18.

LEMON Oil Citrue 6 Ailed Essences 26 dms (11120 bs)
(Sante Cate ins) B uenos Airee, 11/17.

LINEAR LOW 0 ENSITY POLYET HYLENE Astra Packaging 1 con (24251 toe) (Sauci Riyadh) Damman, 1

Mobil 42 con (1561601 los) (Seudi Diriyah) Damman. 11/28. Powerflow Products 1 con (55477 lbs) (Soud: Riyadh)

Damman, 11/25.
LIONOL BLUE ORGANIC PIGMENT Toyo ink 400 bgs (21870 bs) (Ming Universe) Yokohama, 11/22.
LOCUST BEAN GUM Tic Gums B80 bgs (44775 bs) (Inde-

M AMINOBENZOTRIFLUORIOE 47 csk (28184 lbs) (Koin Exprese) Bremerhaven, 11/16. MACE OIL 16 dms (6025 bs) (Ever Golden) Singapora.

11/14.
Ungsrer 16 dms (8653 tba) (Ever Golden) Singspore.
11/14.
MAGNEBIUM CHLORIDE Potash Import & Chemical 420
bga (42938 ibs) (Atlantic Service) Bremerhaven. 11/

12.

MAGNESIUM STEARATES Total Port Cloarnines 600 bgs [34259 lbs] (California Bler) Rotterdam, 1 1/22.

MAGNESIUM SULFATE J M Rodgers 110 ptg [8083 lbs] [Ming Universel Yokohama, 11/22.

American Chamical 1360 bgs [75858 lbs] [Rogins

Masrsk) Kobo, 11/18.
MALEIC ACID INTERMEDIATES Lop Transport 100 dms (11905 lbe)) Koln Express) Dremarhaven, 11/18. MENADIONE SDDIUM BISULFITE Omnitians 200 dms

MENAUGURE SUCIUM BISULTTIE Omnitiens 200 dms (23810 fbs) (Independence) Valencie. 11/18 MENTHOL Poleromo Mig 6D dnis (7130 fbs) | Santin Caterina) Montevideo. 11/17 Boile 40 dms (2557 fbs) | Koin Expross) | Hamburg. 11/

METHOXYCITRONELLAL S can [185 tos) (Brafa Thion) Rotterdem, 11/28. METHYL CELLULOSE Milrens 420 dms (51852 lbs) (Milly)

Universe) Yekohama, 11/22. METHYL ETHYL KETOXIME Nuodex 76 dms (33342 lhs)

(Ever Quard) Rollerdain. 11/17 Troy Chamical 78 drns 35653 tbs) (Britta Thien) Roller-dam. 11/26. METHYL HEPTENONE 80 dms 133863 lbs) (Ming Universe) Yokohame, 11/22 METHYLIONONE 1 dms (441 lbs) (Dista Thion) Rotter-

dam, 11/28
MINERAL WAX Strohmeyer & Arpo 882 bgs 189740 bsj
Ever Quardt Hamburg, 11/17
441 bgs (44870 lbs) (Ever Goingt Hamburg, 11/23
MONO TERT SUTYL META CRESOL 1 link (41094 lbs)

(Celifornia Star) Brainan, 11/22.
MONOCHLORACETIC ACIO M 1187 Robeco Chemicals

AGNOCHLONGETIC MOTOR THOUGHT AND AGNOCHLONGETICS (1262) Ever Going Rotterdam. 11/23 720 dms (77999 lbs)) Becol Sentos) Sentos. 11/17 Hudson Shpg 750 bgs (37568 tbs) ) Regina Maeisk) Singeporo. 11/16 Scankeight 1570 bgs (78705 tbs)) Ming Universe) Kobe. 11/22

11/22
MUNTOX WHITE PEPPER Central Indonosian Trdg 180
bgs (33069 lbs) (Saudi Riyadh) Singapore. 11/25
426 bgs (7904B lbs) (Saudi Diriyah) Singapore. 11/26.
DMT 808 bgs (11/2911 lbs) (Saudi Diriyah) Singaporo. Gel Spice 300 bgs )56436 lbs) (Saudi Diriyeh) 8inga-

pore, 11/28. Jentzen & Deeke 180 bge (33863 lbs) (Saudi Oviyah) Singapore, 11/28. KHL Flavors 120 bgs (22575 lbs) (Saudi Diriyah) Singapore, 11/26 Ludwig Mueller 380 bgs (87728 bs) (Seudi Riyadh)

Singapore, 1 1/25. Ludwig Muelter 488 bgs (90336 fbs) (Saudi Osnyah) Singapore, 1 1/28. Mortis J Gotombeck 180 bgs (33863 fbs) (Saudi Osnyah) Singapore, 11/26 MUSK XYLOL 27D kgs (31369 lbs) (Helde) Rotterdam,

11/1B. NEROL B dms (3422 ibs) (Britta Thien) Rotterdam, 11/26. NERYL ACETATE 6 dms (2686 lbs) (Britta Thien) Rotter-

MEMTL AGEI ATE O Grie (2000 lbs) (GRIEB THER) PONDER dam, 11 /26.

NIGROSINE WS POWDER ACIO & METAN Penson 65 dms (7344 lbs) (Alva Maersk) Dubai, 1 1/19.

NYLON RESIN General Trailio Systema 512 bgs (28472 be) (Ming Universe) Kobe, 11/22. ORGANIC PEROXIDE Akzo Burt 22 kgs (1325 bs) (Dart

Americans) Felix stowe, 11/20 ORTHO DIANISIDINE 01HYROCHLORIDE Berno Shog 190 dms (81559 los) (Ming Universe) Kobe, 11/22.

P ACETAMINOBENZENE SULFONYLCHLOR Mitsul 420
dris (50927 lbs) (Zim Tokyo) Osaka, 11/26.
P AMINO ACETANIUDE Sävey Shog 60 bgs (6680 lbs)
(Ever Laurel) Hong Kong, 11/19.
P HYDROXYBENZALDEHY'DE Chemical Dynamics 10
dris (1236 bb) (Ming Universe) Kobe, 11/22.
P HYDROXYBENZOIC ACID Kanemateu Gosho 1600
bgs (60653 lbs) (Ming Universe) Nobe, 11/22.
Mobay Chemical 600 bgs (34304 lbs) (Koth Express)
Antwerp, 11/18.

Antwerp, 11/18
P TERTIARY BUTYL CATECHOL Accelerated Shpg 50

P TERTIARY BUTYL GATECHOL Accelerated Shop 50 dms (1422 bs) (Atlantic Concert) Liverpool. 11/11.
P TOLUENE BULFONYL CHICARDE Berno Stipg 80 dms (31746 bs) (Aling Universe) Kobe. 11/22.
PAPRIKA Griffith Laboratories 850 bgs (43267 bs) (Independence) Valencia. 11/18.
850 bgs (43267 bs) (Colombo) Valencia. 11/24.
PAPRIKA OLEORESIN Savino bel Bene-10 dms (4872 bs) (Colombo) Valencia. 11/24.
PARA ACETAMINOSENZENE SULFONYL C Miniul 420 dms (50926 bs) (Aling Universe) Kobe. 11/22.
PARA AMINO BENZAMIDE Layden Customs Expectants (47889 bs) (Ming Universe) Kobe. 11/22.
PARA CRESIDINE FLAKE PMC Expectation (4789 bs) (Ming Universe) Kobe. 11/22.
PARA NTROANILINE Savey Shop 278 dms (34834 bs) (Ever Lauret) Hong Kong. 11/14.
Continued on Page 40

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December 29, 1986

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section access to access page.

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TANKS-31688 38,000, 18,500, 13,500 (2), 12,000, & 8,600 GAL. MANY FROM 100 TO 5,000 GAL. HEAT EXCHANGERS-31688

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5,100 GAL, 350 PSI AGIT., 3,170 GAL, 359 PSI AGIT. (4) CENTRIFUGAL PUMPS - 5 TO 100 HP 316SS (40) HEATER-15MM BTU/HR THERMAL PRODUCTS GAS FIRED SKID MNTD. (2)

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2 VOTATORS model 24-072 Turba-Film Eva porators 35 sq. ft. 316 SS complete system

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VACUUM DRYERS 325 cu .ft. Abbe, 304 SS dbl. cone 200 cu .ft. 316SS, 6'6"x11'6", rolsry 164 cu .ft. Palerson "Consform," 316SS Dbl. cone 150 cu. fl. SS 304 SS Twin Shall 150 cu .ft. SS, & 150 cu.ft. Nickel cisd 125 cu .ft. SS & CS, 4'x14', 105/90/150 psl 125 & 83 cu. ft. Buflovsk SS Rotary 90, 70, 60, 50, 30, cu. ft. PK SS & G/L dbl cons 70 cu. fl. KS Titsnlum dbl. cons

40, & 15 cu.ft. Stokes, SS rolary THE PROPERTY OF THE PROPERTY OF THE PARTY OF

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Niagara Falls/New York Area 700,000 Sq. Ft. Buildings...50 scres of lend 750,000 Sq. Ft. Buildings...35 scres of land Plants manufactured Carbon Electrodes **Equipment Highlights:** 

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(3) 290 cu. ft. 316 SS rotery vec dryer eyeteme
10'x 14' Elmco rotary vec filter
(2) Niesare 36 H 190 filters SS
NASH H9 yac pump w/fullar V 300 booster
Reectors: (4) 3000 sel. 316 SS 60/30 HP asit w/colla

100 pai (1) 3000 gai. 316 SS 30 HP, 6TW, 300pei colla (2) 2000 gei. 316 L SS, 75/200 pei jkt Tanke: 15000 gai. 316 L SS egit. 5500, sel. (3) 3000, 2200 set. Monel vertical 4 000 gel. G/L Pfeudler Chemetor 30 pel SS Heat Exchangers from 100 to 500 sq. ft. plus meny misc. tteme.

S. Addinary of the purity supplies अभिनेतासम् द्वित्वेतिका । १० व्यक्तिका । १० व्यक्तिका । १० व्यक्तिको व्यक्तिका । १० व्यक्तिका । १० व्यक्तिका । १० विद्यक्तिका । १० व्यक्तिका । १० व्यक्तिका । १० व्यक्तिका । १० विद्यक्तिका । १० व्यक्तिका । १० व्यक्तिका । १० व्यक्तिका ।

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(89) Glasa lined & SS Reactor systems complete with condenser, receivers and control panels, from 50 gal, to 4000 gal.

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Drum Dryers/Flekers dryer 2) 32" die.z 108" Blew Knoz C1 dbie. drum

dryer 32°de. x 17'8" Sandvik 6S balf tleker 38°de.x 10' Buflovak C1 dbia. drum dryer 42°die.z120°8iew Knoz Cl dbie. drum dryer 48"die.x 26" drum fleker, chrome pleied 1) 48"dis.s 40" Ci fleker, mig. by Sulfalo

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(1) -43"dle.x 40 drum tisker, nicket plated drum, mfg. 8isw-Knos

Fluid Bed

(1) 60 Kg. Aarometic, 5 etch, 6'x9', 68,000

(1) 100 Kg. Aerometic Model ST 100, sanitary SS

1) Fitzgetrick Model FA 250, 8S, 20 HP XP Holofilte

(1) Wextern Precipitetion Model P806SO-A, swin ecrew, 12" die. z 20' long, SS constr., jcki. reted 18 psi, complete with 7.5 HP vari-spsed drive.

11 New / Never-Used Joy Processor, CS, eingle screw, 16"x16" long, rated 110 psi @ 340" F., aprocket & chein drive by 1.8 HP verispeed drive. Rotary Vsouum

(1) 200 Cu. Ft. Stokes, SS conetr., compit.
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AFY/50 psi jkld., 15 HP veri-drive
(1) 180 Cu. Ft. Blew Knox, Niokei
(2) 132 Cu. Ft. Slokes, Nickei
(1) 72 Cu. Ft. Siokes, Nickei
(1) 72 Cu. Ft. Gfsw Knox, SS
(1) 80 Cu. Ft. Tilanium Couble Cone
(1) 50 Cu. Ft. Gamco, 316SS sanitery, double

(1) 37.6 Sq. Ft. Heriz. Thin Film, vsc. Int. & 150 paig, 304/31685 (1) 37 Cu. Ff. Gemco, SS (1) 37 Cu. Ft. P.K Twin Shell, 30465 (1) 20 Cu. Ft. Abbe Twin Cone, 304SS

(1) 30"x3' Bowen Leboretory w/3' cone bot-lem, SS constr., w/centifugel etomixer, 3 HP blower & molor.(1) (1) Miro leb eixe 32"dlea2'w/2'cone w/centrif. etomizer SS contacle (1) 16' die. Bowen compit. system SS con-tacte, new 1976

CENTRIFUGES

1) Gelevet 6RPX 309, SS, 20HP 1) Unused Model B-10 Podbletniek, Alloy 20 1) Sherples AS-26, SS 2) Sherples AS-13P, 316SS -, charpies Ac-197, 31035 1| Alfa-Leval 96 Oscanler, Horix., Mdl. NX314 2) Oorr Oliver Mdl. CH30 C6U "Merco," \$1666 contacts, 150 HP 1) Beker Perkins 8-32 "Pusher Type," 68, 60 HP

1) Ser Perkins 5-32 "Pulmer Type, Go, do In-1) Sird 10" a 28", 316 ELC, conlour bowl. 2) Sird 24" x36", 31656, 40 HP 3) Sharples P-3000, 31656, 30 HP 1) Sharples P-1000, 55 20HP 1) Unused Sird 35 x96, 317L S6 10" a 20" Tothurst centrifuse, Kynar lined, perf. heaks?

40"s 20" Tolhurst centrifuse, Kynsr lined, perf. besket

1 Tolhurst 48" x 24" pert basket, \$1685 senitary, suto. plow & discherge, rated 66 %/cu, ft. @ 900 RPM, 20 HP XP.

11 Tolhurst 46" s 24" Satchmester, 31885, perf. basket, w/hydr, plow & 20 HP hydr, drive

11) Tolhurst 46"x24" Satchmester, rubber lined, perf. basket, w/hydr. plow & 20 HP hydr. drive

12) Tolhurst 48" x 24" Satchmester, Hereste lined, perf. basket, w/hydr. plow & 20 HP hydr. drive

11) Western etales 48"x 24", \$18 SS

11) Fistcher 48"x 28" Suspended type, SS perf.

(1) Fistcher 48"x 28" Buspended type, SS perf. basket, 20/10 KP (1) Sherplas Tornado 48" a 30", 81696, perf. basket, 40 KP XP (1) Alfa Level Model MAPX 210 T24, 85 waited parts.

RIGGING

paria [2] Sherples C-27, \$16 SS, welled peris, 40 HP (1) Sharples C-20, Super-D-Hydretor, SS, 30 HP [1) Corr Oliver Mercone Soreener Model C-400 X2, ell 56, twin scraw disch., 10 KP

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500 Gel. Pfeudier, 100&FV/S5 pel, 6H drive

Stainlese Stsel
4,000 Cal. 3158S, Almos./50 psl, withcolls
3,000 Cal. 347SS 6linw Knox, 150/50 psl
2,500 Cal. 315L SS, 75/75 psl, 150 psl int. cells
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psl, FV int. colls
2,000 Gal. Dusanbarg, 318 SS,15/35 &
FV int., 50 psl jkt.
1,750 Gal. 316SS Notte, 1487/50 psl
1,500 Gel. 304SS, 10 HP Lightnin
1,500 Gel. 304SS, 10 HP Lightnin
1,500 Gel. 304SS, 250/80 psl
1,000 Gal. 316SS, 50/75 psl jkt
1,000 Gal. 316 SS, 15 & FV/50, 10 HP
1,000 Gal. 316 SS, 100/30 ID HP

1,000 Gal. 316 S5, 100/3D 1D HP 750 Gel. 316SS, 75 & FV/50 psi

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verlapsed 100 Osl., SS, Sigme Siede, Joktd. 40 HP 200 gel. W-P CS dble erm Sigme blade, 20 HP 500 filter Waffax hi Intensity, SS contact parts 500 Osl. S-W Rubber Cament, CS, 2-10 HP

500 Osl. S-W Rubber Cement, CS, 2-10 NP motors (2) Unused 1000 Sel. Senitary 316SS B-K Dbl. Motion Changs Can; 100&FV/165 PSI, 125HP Littleford Model FKM-600D, SS Littleford Model FKM-600D, SS Littleford Model FKM-2000, SS, w/choppers 7 Cu. Ft. 304SS Neuta Model MSX-70 10.6 Cu. Ft. Neuta D-105, CS Weiding Eng. Model ZFV1V2S Twin screw Extruder, SS, Conlects, 150 psi Koehring mdl. 350, 40 HP NEW/NEVER USED 7S/37.5 HP Hockmeyer Disperser

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4,000 Gel. Pfaudier, 100/90 psi, TW 4,000 gel Pfaudier, 50/30 psi 3,700 gel Glascote, 50 & FV/90 psi 3,000 gel Glascote, 50 & FV/90 psi

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(1) Mdl. #20H Micro-Pulverizer.
(1) Mdl. #3TH Micro-Pulverizer. SS, w/40 HP mein motor & % HP screw

motors.
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(1) 6" a 42" Votator Scropped Surface Heat Exchanger, w/5 HP motor &

1) 6" a 42" Votator Scropped Surfece Hest Exchanger, w/5 HP motor & jckt.

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1) 32" w. x 5" 5g, Writte Vibrating Cenreyor, SS, w'cover, 2-deck.

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2) 2000 Del. 55 Mix Tanks, senitary fittings, % HP Lightnin,

1) 2000 Del. SS Mix Tanks, senitary fittings, % HP Lightnin,

1) 2000 Gel. SS Mix Tanks, annitary fittings, 3 HP Lightnin.

2) 1800 Gel. SS Mix Tanks, sanitary fittings, 3 HP Lightnin.

1) 2000 Gel. SS Siorage Tank.

2) 1800 Gel. SS Mix Tanks, and geltetor mount, (no agitetor)

1) 1000 Gel. SS Joktd. Mix Tanks, atthemant, inc. 150 psi jokt.

3) 1500 Gel. SS Mix Tanks, 3 HP Lightnin.

(2) 22" Dis. Spary Gryers, compilete system.

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200 Cu. Ft. KS 31658 Cbi, Cone
178 Cu. Ft. KS 31658 Cbi, Cone
178 Cu. Ft. KS 31658 Cbi, Cone
60 Cu. Ft. CS Dbi, Cone, 7,5 HP
63 Cu. Ft. CS Dbi, Cone, 7,5 HP
63 Cu. Ft. Marton Paddis, CS
60 Cu. Ft. 304 SS P. K. Twin Shell, w/int. bar
60 Cu. Ft. 304 SS P. K. Twin Shell, w/int. bar
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40 Cu. Ft. Germon Dbi, Cone, 30458
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15 Cu. Ft. Robinson Dbi, Rbn. CS
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x1D', sanit 1-250 5q. Ft. K-S 31888, coll disch. 1-300 Sq. Ft. Elmco, 31858 wetted perts, precoet lypa w/knife dinch., 1D' die. x 1D' drum, compit. w/control panel &

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2540-Sandvik 2'x40", belt flaker 22541-Tenke, S/S, 5 x6\* (2) 22542-Cowlee dospenser, 100 HP. 22544-Mikro 2DH pulverizor

22548-P/S bell dryer, 4'x10'. 22549-Dey, 85 cu. 11. ribbon bler 22550-Ribbon blender, S/5, 40 a 22550-Ribbon blander, S/5, 40 cu. tt. 22550-Ribbon blander, S/5, 40 cu. tt. 22551-Kettles, 8'x10', S/8 dimpla )ki. (2) 22553-Quincy Air Compressor 22557-Raymond #50 Intp mill.

22597-Haymond #30 Intp mill. 22552-Raymond 1A Hammerrnill. 22545-Caddington bag packers (3) 22447-Dyne Mill mod. KD200, horiz. (2) 22446-Plaudier 30 gal. G/L reactor (2) 22351-Allas Copco et compressor. 600 CFM @ 125 psi, 125 HP. (5)

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22441-Pappenmeier 600 gal. Liter Mixer/Coller

22480-P.K. twin shell blander, 1 cu. ft. 325 lbs/cu. ft.

L/5 stainless, w/drives 5 HP bar, 34 HP main.

22461-P.H. 1 cu. ft. S/S. 275 tb. density, 30 lb. jkt.,

vac. 34 HP veri epeed meln, 2 HP bar.

22344-Christien robbon mixer, 36 cu. ft. steel jacket,

7.5 HP, unitized.

7.5 HP. unitized.
22342-Sheet extrusion line, Prodex 4.5", 24:1 L/D, 50 HP, eithed die, chil roll etack, Farnco shear.
22343-NRM Terret Winder, 48-46 w/2 edjusto speed molors, 1 HP
22449-Gemco 10 cu. ft. S/5, jkt. L/S processor
22498 Acrison mod .203-1052, 1½", 2½", 4" auger

wydrives. (3)

22497-5parkler mod. 18S11, T304 S/S

22498-Walter 750 gel. reactor, FV/100 lb., |kt. 40 lb., 30 HP veri dual motion.

22467-Welter 225 gal. reactor, FV/100 lb., |kt. 40 lb., 4

10 HP vari duel motion. 22453-Stokes mod. 280 F, 109 ton press. MIXER - DBL. ARM

22446-9 P. 100 gal. Sigma, S/S, tilt. 22439-8.P. 100 gal. Sigma, S/S 22440-B.P. 200 gal. Sigme, bit. 22435-Milel Mixer, 250 G. Sigma, S/S, Jk1., vac, 100 HP

MIXERS - PLOW 503755-Littleford, FX M 6000, 5S lacketed, 26 HP. 20754-Littleford, FKM 3000D 85 CF , S/5 , full jacket. 1B214-New Plow Mixer, 80 cu. IL 347SS, lacket, 100HP, 20629-Littleford FKM 42000, S/5, 87 cu. ft. JKT.

MIXER RIBBON

21 120-Ribbon Blender, S/S, 10 cu. tt., ikt. SS, 150 psi. 20276-Raad ribbon blender, 14.7 cu. It. 304SS, 3 HP. 20816-Unused Oay, 31666, 23 cu. ft., 6HP. 20189-Robinson, 25 cu tt., S/S, Jacket, 10 HP. 22344-Chastlan Rubbon Hender, 30 cu. ft., C/S dbf apiral Ribbon Inner & Outer

20965-Int 134 cu. tt. S/S dbf. ribbon, 5 HP. (4) 20212-Haas ribbon, 38 cu, ft., S/S, 15 HP, 18266-Ribbon Mix 80 cu, ft. T304 SS, 5 HP (4) 19566-Howe, 115 cu 11., sanitary S/S, double spiral ribbon. 20963-Strong Scott blender, 130 ct. It., 304SS, 25 XP ger

21 124-Ribbon Ølender, 304SS jkt., 160 cu. lt., 30 HP. 2061 4-Unused JH Day ribbon, S/S 270 cu. ft., 25 HP. 21114-JH Osy ribbon blander, S/S clad, 75 HP, 460 cu. ft.

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22352-Twin screw axtruder (NA Bitruder Co), 65 mm, elect. heated, 20 HP DC, pollett die, vac pump used 100 hours 17654-AMK 25 gal. Mixttruder, Sigma, ST 7.5 HP. I.H. Day 25 gal. Dispersion, 25 HP vari main, 10 HP

20996-AMK 30 gal S/S, jkl. Sigma, 7.5 HP Main, 6 HP screw. 21334-Ross 40 gal , S/S hot oil jkt., Sigme S" disch. screw.

21334-Ross 40 gal , S/S hot oil [kt., Sigme S" disch. screw. 19826-AMX 50 gal. ST, [kt., Sigme, 10" disch. screw. 19421-AMK 75 gal. ST, [kt., Sigme, 10" disch. screw. 17136-AMK 120 gal., ST Sigme, tt.5" screw. 14632-AMH 150 gal., S/S, Bigme 16HP main, 10HP screw 19484-AMK 150 gal., S/S, Bigme, 50 HP main, 10HP screw 20116-AMK 150 gal., S/S Sigme, 50 HP main, 10HP screw 20116-AMK 150 gal., ST, Sigme, 15 HP/10 HP 503527-New Aeron 300 gal., T304SS, mix extrudor, Sigme, [kt., up to 200 HP main, 75 HP hyd. screw. 504528 - Aeron 300 gal. mixer/extruder T304SS, Sigme 150 HP, screw 75 HP hyd. [kt., 200 psl, Vac Cover, Exceiieni condition, Call Steve (312) 350 - 2200 21350-B.P. 500 gal. Sigma stael, jkt.

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21593-Sherples P5400 Senitery Centriluges w/200 HP motor, 25 HP beckdrive, geerbox, 5" pitch convayor, CIP, control panel (2) LATE MODEL

CENTRIFUGES

22314-Sharples #16 Super Cantriluge S/S, 3 HP, cooling colls clarifler (22) 20827 Bird, 16"x24" steel, conicel bow 20829 Bird, 24"x38" steel, con, bowl, gearbox 20819- eird, 24"x 38". S/S, 15 degree, contour bowl 20884-Bird 24"x60", H series, steel w/motor. 20364-Bird 32"x 50", SS T316 contour, 76HP. 12883-Bird 36" x 96" contour, 10 deg., T317 ELC. 20137-Alfa Lavat, NX 418-B31-60, 31688, gearbox 17308-Dorr Oliver, 3045S, Merco mdl. 18L, 30HP. 13565 Sharples, mdl. P600, gearbox, motor. 19767- Unused Sharples, 3 phasa, P3000, S/5, carbide 20407- Sharples P2000 316SS, 20 HP drive motor. 21359-Sharples P3000 w/gearbox. 20566-Sharplee P3000, 52-1 gaarbox, S/S casting 21725-Sharples, P3400, S/5, gearbox & motor. 19249-Sharples. P5400, 318/317S5, 200 HP, gearbox

### CENT-BASKET VERT.

21408-Delaval 22"x16" perf. basket hyd. driv 15616-Delaval Mark III, perf. basket, 40"x24", 6169S, 3

HP, hydr., drive 1B446-5 harples Sludgo Pak, SP-5500, 40"x24" baske

### **CANADIAN BUYERS** LIQUIDATION-QUEBEC

22373-Reactor, 3500 gal. 8"x9"H, S/S clad, agit, dimple

jackel. 22381 - Reactor, 5000 gal. 10 'x92' 'H, T316S clad, internal 330 b., jkt 75 b., agit 30 HP, vari speed. (2) 22379 - Philadelphia, 7V63 egit drives, 10 HP, S/S (4) 22385 - Siabtechnik H - 400 centrifuge conturbex horz. screen, S/S, 20 HP. 22365-Climatrol water chiller LFV151172, 40 tone. 22365-Cyclone Sepeartor, 40" dia. x 2" plus 6" cone, S/S, Joy fan 15 HP. 22375-Sweco 30", 3 deck, S/S, ½ HP (2)

22387-Weukeeha mod. 300, Sanl pump, 6"x6", 15HP.

### DRYERS

20291-Glaff fluid bed dryer. TFO-60, S/S. 10 HP 20294-Sisterville, 150 cu. ft. T30455, 6 da. 15 HP 22119-Abbe db' cone dryer. 20 cu. ft. T304SS, 1 HP. 21397-0 lvine shel dryer. 356 sq. 11. #25 C.I. (27) 504474-"Unuaed" Young vac. dryar. 4 dia.x14". 140 cu. ft. T318LS/S. 25 HP (2) 20327-Ruggles Cola dryer, rotary, 54" da.x35"L. 15H 20961-Niro strey type F-10 atomizej. 10 dia.x 304SS 21727- Kaiper Paa ililators. 5x20". S/S const. w/drye

TANKS-S/S
22257-UNUSED Tank, 100 gal., T304SS, 30" dia., DH
22253-UNUSED Tank, 550 gal., T304SS, 4' OD, OH
22256-UNUSED Tank, 1200 gal., T304SS, 5' dia.x7'H, DH,
21283-Tank Risk upp. 1200 gal. 8' dia vis. fiel km & hot 21283-Tank, B/S vent., 1200 gal., 6' die.x6', fl 22255-UNUSEO Tank, 1800 gal., T3046S, 6'x6" dia.x7'6" 22254-UNUSED Tank, 3,000 gal., T304SS, vac., 5' dia.

20651-Tank, 6S, 9000 gal., agil., 12' dia. x 14'6" H. 20655-Tank, SS, 12000 gal., 12' dla. x 14', fial bottom, open top. 17043 Jos Oal horz, tank, 304SS, 1S,000 gal., 12'6" dia. x

22'917" long, 10 PSI.

**REACTORS** 20252-Unused Reactor, 600 gal., 304BS dimple jktd. 10138-Plaudfer, 800 gal., T-316 L SS, 55 PSI Int/150 PSI. 20926-Brighton, 4000 gal., 8 dla. x 10", 316ELC 8/8 20456-Reactor, 4,000 gal., 316 S/S, 6 da. x 7"9" st. side. 15475-Brighton, 4000 gal., 316 SS, vacuum. 20267-GH Hicke, 4000 gal., 316 SS, pipe colifict. 20923-Richmod Eng. Reactor, 4800 gal., T316 stain/clad. 20923-Richmod Eng. Reactor, 4800 gal., T316 stain/clad. Plaudier 10,000 gal. reactor T316L, 100 psi int., 180 psi. Plaudier 16,000 gal. reactor T318L, 100 psi int., 200 psi iki.

UNUSEO Manesty Express, 10 ton, 20 statione, 11602-Collon Prass mod.260, 31 die stations, 1800 TAG 21362-FJ Stokes rotary tablet, 15 station, 10 ton 21416-Manesty rotary tablat, 16 station, 10 ton. 14425-Stokes Tab Press mod. #551, 51 stalign, 4 ion. 21417-FJ 5tokes rolery, 27 slatton, 4 ton, double sided. 503881-Komarak Greaves, mdl. 75MSS briquetting press 20.5" dia. x 4.5" face.

13392-Fitzpatrick Chilsonator, 50 HP, mdi, HA-50-30-210 18802-Stokes single puchin press, 900-530-1 (T4), 12 ton. 17224-Dorst compec., series TPA15, 20 tons. 10890-Stokas, mdl. R-4 press, 20 ton



22215-Wilmes Siedder Press, S/S, 38" diz. x 9'8" long, horiz, 5 HP, unltized. (2)

### **DUST COLLECTORS** 21t25-Fabri-IJet jdl 5Q9-40 bin vent, 42 sq. lt. 16398-Mikro dust collector, 5/5, 63 sq It., mdl 9-6-100

21 153-EVD, bin vent, 72 sq 1t . S/S, 5 HP 20253-Unused EVO pulse jet collector, mdl 640F009C, 90

21 192-JH Day midl. RJ-18RJ36, t 25 sq. lt., CS, 3 HP. 21222-Fabri-Jat, mdl SO16-80, 151 sq lt 20398-Pulse jat collector, "Flex Xloan," mdl 56CT24 AV II w/175 sq. tt., doth, C.S

1286-Mikro dust collector, 285 sq. ft . S/5 20256-Unused EVD Corp. pulso jet dust collector, incli 99BF030C, 350 sq. ft. 20255-Unused EVO Corp. dust collector, shakar type. mdl MS049C10. 575 sq. IL.

### SCREENS

21203 Sprout Waldron siltar, 010, 6decks. 21150 Sprout Waldron, 010, 1 HP, 10 decks, S/5 cont 21157 Sprout Waldron, 010, 2HP, 10 decks, S/5 cont

ROTARY VAC DRYER .

22210-Bertrems, S/S 5'dts. x 12' diehed hesds, half pips coil is oket 200 psi, 20/13 HP, unitized.

FILTER PRESSES

19846-Shriver P&F fifter press, 12"x12" alum. pletes,
closed delivery, 23 chambers. 20534-Sperry Filter Press, 30", elumn. 20539-Sperry filter press 30", 35 Aluminum platee, 367 sq. 15370-Shriver 32" x 32", polypropytene, 27 plates, ratchet

closing. 5B29 Shriver ALP, plate & frama, 16 36" x 36", S/S re-

19462-independent filer press, 42" x 42", polypropylene 4 eye closed, 34 chambers. 0550-Sperry filter press, 42" Encl closer, 41 alum. plates.

FILTER-ROTARY VAC. 15626-FE,Inc. 66" dla.x12", 8/8, ewing dlac., 1/2 HP. 17477-FE, Inc., 6" dla.x 5", T316SS, belt disc., vac pump. 1747 FE, Inc., o Crax 5 , 131685, per Crac, vac pump.
11177-Dorr Diver S/S, 5 dra. x 6 L.
11653-Obver T-31685, precost 5 3" x8".
19431-K.S. flexibelt, 6 dia. x 6 tace, 61685.
18392-Eimoo bell filter, 6 x10", steel crum, w/Nash pumps.
15827-Ametek, 6 dia. x 14 0" tace, max-belt, 5/S.
17938-Eimon, 31638, 10" dia. y 14", knite dienharce. 15827-Ametek, 6' dia x14' 0" tace, maxi-bett, 5/8. 17938-Emco, 31638, 10' dia x 14', knile discharge. 17283-Imponbeti fitter, 12' dia x 12', 3048S, Nash vacuum 20261-K, 6, T304, vacuum fiter, 12' dia x 14', 3048S. 20323-Dorr Oliver 11'6" x 18' iace, 8/\$ conl. parte. 11488-Eimco 10' x 10' rotary vac. fitter.

## LIQUIDATION SALE

### LARGE POLYSTYRENE PLANT

ILLINOIS LOCATION

21699-Ptaudiar Reactor, 1,500 gal., 318LSS dimplejkt. 21696-Ptaudiar Raactor, 10,690 gal. 318LSS diad, 60 HP. (4) 21900-Pteudler Reactor, 15,000 gal. 318L S8 dimple

21697-Metal Arts Corp. vessel, 17,000 gel. vert. 317L

SS. (2) 21898-Brighton Corp. Tank, 12,000 gel. veri., solid 316L 55. (2) 21675-Bins, 176 cu. tt., 5/S, cone bottom flat top. (4)

21691-Bins, 450 cu. it., C/S, apoxy fined. (8) 21904-Bine, 450 cu. it., C/S, epoxy lined. (8) 21905-Bine, 500 cu. it., C/S, epoxy lined, fiel lop, conlcel bottom. (4)

21910-Worthington cant. pump, C/S, 15 HP, 200 GPM at 44 paig (2) 21916-Union Pump-Inline, C/S, mod. 4x5x8.5 VCK, 46

HP. (4) 21906-Edw Renneburg Rot. Gryer, 5/S, eteam heat, 10

21651-Heaters, C/S steam, type BNF 2420 (8) 21914-Fiotronica bin vent, tillers, 122 sq. ft., 12 bags. 21889-Hatron Faeder twin scraw, 5/Smed.5400-t50(4 21901-5parkler fillar, 352 eq. (t. C/S, mod. VR-32-32. 21802-Screw convayor, 304 55, 7" die. x 11L, 1.5HP. 21688-5trong Scott Rib Blender, 26 cu. tt., 6HP.(3) 21920 - Watax extruder 6", 30:1 L/D, 400 HP. 21670 - Wotax extruder 6", 30:1 L/D, 600 HP. 21876-Conoir polletizer, S/5, mod. 1024, 40 HP.(2) 21874-Wotar bath, 5/S, portable. (4) 21687-Rosa Stellc Mixar, 304SS, 3"x6 alement. (4) 21917-Ingersol Rand pump, In: line pump, C/S, 30 HP.
21915-Goulds, C/S turbine pump, 200 HP. (2)
21913-Worthington cent, pump, S&S, 2 HP. (4)
21912-Union pump-inline, S/S, 7.5 HP (2)
21910-Tank, 640 gal., Ile1 top & bottem.
21920-Modern Welding Tank, 4800 gel. heriz. rubber

21876-Gormen Rupp pump, cantrifugel C/S, mod.

62EZ.(2) 21871-Prodex oxtruder 8", 30:1 L/D setio, 800 HP. 21892-Buffelo blower, alze 30, C/S, 10 HP (3) 21880-Sutor Bill Blower, C/B, 40 HP, (4) 21922-Buffelo blower, type 40-3CB, 40 HP. (4) 21894-Buttalo blower, mod. 45-3CB, 75 HP. (3 21683-Bird, 32x 50 centrituga, 80:1 geerbox. (2



21883-Bird Centrifuge, 32x50, 80:1 gestbox.

21893-Environmening acrubber, mod. A33-14000 21895-Tenk, 850 gal. vert. coal ter epoxy lined. 21811-Tenk, 54000 gal. vert. C/8 epoxy coaled fist

top/bot. 21903-Tank, 60,900 get. vart. C/S epoxy, flat bot. confcel top. 21902-Worthington compressor, mod, 48E-2; vert. 125

psl. (2) 21879–3weco sitter 80", mod. L980\$96, 2.5 HP, 21923–Kason either 80", mod. K601\$8, 5/9, 1HP, 21923–Kason either 80", mod. FTHEC370-T, 364 8/5 11884–Fretronics Cyclone mod. FTHEC370-T, 364 8/5 12" dis. dieh tep. (3)

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30,50,150, 200, 1000 Oel. S/8 Reactors 100#/754

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BAKER PERKINS HS-10W S/S"Lab" peeler BIRD 24x50 ST/CCF design WESTFALIA SAMR 5036 SS 15 HP SPARKLER HRC 150, 200 S/S Horiz. Press. Lesf DELAVAL ACVO Diec/Nozzie SS 20 KP KRAUSE-MAFFEI 18.5" Pusher S/5 (Rebuilt 35,50,150,300 sq.ft. Prees Leaf S/S TANKS/REACTORS 8HARPLES P-3400, 4000 8 & horiz, solid bow ALFA-LAVAL NX-214SS DECANTER 20HP 28,000 GAL. HORIZ. 31635 Tanks 40# (2) SHARPLES 46"x30" T-1800 AUTO 316 88 (2) 200 Gel. S/S Reactor 150#/150# W/Ag 1.200 GAL, T-318 S\$ REACTOR 30 75/#JKT. w/Agit. SHARPLES Mark 3 14" SS perf. euto besket

MIXERS/BLENDERS P/K 2.10, 15, 75 cu.ft. S5 Twin Shell w/ber 5.20, 50, 70, 320 cu. ft. S/S dbl. cone w/drive 120,135, 155, 175, 250, cu.ft. dbi rlb S/S 300 get. J.H. Dey Pony Mixer Steel w/cen (2) Vrieco 100 cu.ft. S/S Neute Mixers

LITTLRFORD 42 cu. ft. S/S jkt w/choppers 5, 100, 300, 750 S/S dbl. erm w/drive

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Automatic Basket Centrifuge 48" x 30'

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40": 120" S/8 HoteX VID. Screen 2-0eCK 12,000 gel. Frp Vert. Tanks (2) 1000 gel. Plaulder G/L reactor 75#/75# w/egit. Bird 1 8x26 S/8 Contour 9owl Centrituga P/8 S'x 46" SS CONVEYOR 09YER 22,500 Gel. Tenk/Sito SS Vert 12 tt. x 24tt.

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30,000 gel. 3048S fermaniors, 14' x 24', 25 pai/vac., colls, 200 HP agit. (4)
5,000 gel. 3048S, alm. int., 76 pai (kt., egit. 4,100 gel. 3048S kettle, 20 pai |ki., 7'; HP agit. [2)
2,500 gel. 3048S reactor, 76 pai/FV int., 180 pai |kt. 1,500 gel. 3048S reactor, 76 pai/FV int., 180 pai |kt. 1,500 gel. 3048S kettles, |kid., 5 HP egit. (3)
1,500 gel. 79 pai/FV int., 180 pai |kt. 5 HP agit. (2)
1,180 gel. 3048S reactor, 16 pai |el., 25 pai |kt., 5 HP agit. 900 gel. 3048S reactor, 75 pai/FV int., 150 pai |kt., egit. 600 gel. 3048S reactor, 150 pai int., 75 pai |kt., 5 HP agit. 300 gel. 3048S reactor, 150 pai int., 150 pai |kt., 5 HP agit. 300 gel. 3048S reactor, 150 pai int., 150 pai |kt., 5 HP agit. 300 gel. 316SS reactor, 75 pai/FV |et., 60 pai |kt., 5 HP agit. (50)... 316SS and 304SB reactors and keildas from 5 50)... 316SS and 304SB reactors and kallias from galloe to 400 gallon... call for list.

### BIG PFAUDLER 316SS REACTORS

(3) 15,000 gel. Floudier, 31685, 12'6"x 15', 100 ps), 200 pst jkt. Agit. (4) t0,000 gal. Plandlor, 31658, 11'6"x 12'4", 100 psl, 180 psl, jht. Agit.

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2 gal. Pfaudier, 750 psi /FV, 700 psi jkl. 20 gal. Pfaudier, 35 psi, 100 psi jkl., a git. (2)

20 gal. Pfaudier, 35 pal, 100 pal jkt., a git. (2)
30 gal. Pfaudier, 25 pal, 100 pal jkt., a git. (2)
30 gal. Pfaudier, 1ktd.
50 gal. Pfaudier, 100 pal jkt., 80 jkt., a git., 1975
100 gal. Pfaudier, 25 pal, 90 pal jkt., a git., 1975
100 gal. Pfaudier, 25 pal, yac., 90 pal jkt., s git.
300 gal. Pfaudier, 25 pal, yac., 90 pal jkt., vari-drive a git.
500 gal. Pfaudier, 100 pal, yac., 105 pal jkt., vari-drive a git.
500 gal. DeDietrich, 95 pal, yac., 105 pal jkt., 5 HP agit.
750 gal. Pfaudier, 25 pal, 85 pal jkt., 5 TW agit.
1,000 gal. Pfaudier, 100 pal, yac., 90 pal jkt., 19 HP agit.
1,500 gal. Delbietrich, 100 pal/yac., 90 pal jkt., 1981,
1,500 gal. Pfaudier, 100 pal/yac., 90 pal jkt., 15 HP agit.
2,000 gal. Pfaudier, 100 pal/yac., 90 pal jkt., 15 HP agit.
2,500 gal. Pfaudier, 150 pal, 90 pal jkt., 15 HP agit.

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1-1890#/ Day dissolver/extraction system
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5-Neeh CL493 Vac. pemps, 40 HP
1-Strong-Scott 299 cs. ft. steel
Ribboe Biender, 25 HP
1-Sergent coevery dryer, 8/S 3'e24' I-Sergent coeveyor dryer, 8/S, 5'e24', Stasm hest

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1-impco continuous pressing, conveyleg, ehredding and condensing system

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J-Beker-Perkine 136CF Barraite Misera, Jeckeled. 9-Ristz RCH1B Disinfegraters, B9 HP 9-Sperry 35" e 38" CI Filter Presess t-Biokse t9"e 2' 8/8 cisd Rot. Vac, Dryer

### **DRYERS** Nooter 4' x 14' rot. vac., 31088, 1982, NEW (3)

Blaw Knox S'4"x 40" SS vac. dryer, 600 cu. ft.

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Blew Knox 66"x 38" vac. dryer, elckel Mathia 24"x48" fleker, chrome pleted Sandvik 48"x24" SS belt flaker, UHUSES Bergant 60" x 45" BS conveyor dryer Blaw Keex 32" x 90" dbl. drum Aeromatic #ST-5 build bed dryer, 5/19 KO Witte 39" x 10' fluid bed, SS, sanit.-cooler 6enneberg 35" x 20" rotary dryer, 316 SS 96" • 50' Louisville SS rotary dryer 10" x 100" GATX rot. steam tube dryers, 140 pst (4) moel #VTL-24 Turbo-tray dryer, 304SS P-K 5 cu. ft. vac. dryer, 304SS P-K 20 cu. ft. vac. dryer, 304L SS (2) Abbe 30cu. ft. 304SB vec. dryer Device 110 cu. ft. 304 SB vac. dryer Plaudier 165 ce. ft. glass-steel vsc. dryers (2) Abbe 326 cu. ft. 316SS vac. dryer Devies 370 cu. ft. 31858 vac. dryer Devina 564 sq: ft. vac. shelf dryse Niro 30" SS spray dryer Bowen 72" spray dryer, 88 9owen 96" spray dryer, SS

### FILTERS-VACUUM

36" e 1 'Oorr-Oliver, liber glass 8 sq. ft. 38" x 1 'Amatek, 316 S5, 9 sq. ft. 40" x 3' Bird-Young, SS, 48 sq. ft. 4x 18' Elmco, 316SS, 54 sq. ft., horix. B' x 3' Amalek, SS, 55 sq. ft. 6' e 4' Elmco, "Elmcomel" polypropylene, UNUSES B' x B' Elmco, BS, 200 aq. ft., precoat B x 19 Dorr-Oliver, 250 eq. ft., precoal B'x 12 Elmco, 3165S, precoat, 300 eq. ft., (3) 6' e 14' Dorr-Oliver, 816SS, precoat, 350 eq. ft. (2) 10' x 10' Elmco, 316SS, precoal, 314 eq. ft. 11'S"x 18' Eimco, SS conlacte 12' x 14' Homlins, 304SS, 525 sq. ft., flexibelt disch. (2)

### FILTERS-PRESSUME

54 sq. ft. Funda, SS, |ktd. 65 sq. ft. Funda, SS, |ktd. 65 sq. ft. Artisan "Dynamic" ffiter/washer, SS (2) 146 sq. ft. Nisgera #310-22, 316SS (4) 600 sq. ft. U.S. Autojet, 316SS, sanit. 1000 sq. ft. U.S. Autojet #1000, 304SS 24" Shriver filter pissas 548 sp. ft. hydraulie 36" Shriver filter press, 546 sq. ft., hydraulic 42" Bhriver filter press, 777 sq. ft., hydraulic 48" Shriver ALP recessed Olter press, SS, 276 sq. ft. 48" Poly Filter Co. polypropylens filter press, 2094 sq. ft., B7 ce. ft. caka, 1983

### **PULVERIZERS**

Mikro #4TH palv., 125 HP, UNUSE 9 (15)
Mikro #5MA atomizer, 5 HP
Mikro #6MA atomizer, SS
Palimen #REF8 pulv., 50/75 HP
Palimen #PP8 pulv., 50/75 HP
Abbe porcelain pebbla milla...36"x42", 36"x48",
42"x 60", 43"x60", 60"x48" (7)
Raymond #6053 Hi-aide roller mills, dbl. whizzer (2)
Raymond #73612 Hi-side roller mill, dbl. whizzer

### **NEW LIQUIDATION...** CHEMICAL PLANT...GARFIELD, N.J.

[4] \$1689 packed colemes; 15" z 15"; 20" z 12"; 36" z 23" ; 36" = 40" (1) 36" x 46" Gillich 316L 55 column, 24 trays

(1) 36" a 40" (1) 48" (4) 48"

200, 100 gal.

(6) 3000 gal. vert. steel tenks, S' x S'

(1) ledestrial filler deel unit dioniestica system, #3653P6A, Type 266, W/(2) 316L SS columns, 310 SS exchaeger and tank, cantrols, etc... buill 197.

ALSO — SS pumps; (9) rebber-lined tenks on scales to 7500 gal; Rotocione SS collector; blower; etc.

PERRY



### Over (50) Bird & Starpton decautors CENTRIFUGES

Sharples P-5400 O-Center, 319SS, Carbide tiles, lata (2) Bharples P-3400 D-center, 316SS, tiles (2) Sherples P-5000 O-center, 316SS Bharples P-680 9 -center, 318SS, back drive Bird 12" x 30", 316SS, Occenter, 29 HP Bird 18" x 28", 316SS, Deceeter (3) Bird 24" x 36" Decenter, 3048S, contour-10 Bird 24" x 38" Occanter, 319SS, contour (3) 8ird 24" x 60" Gecanter, steel Bird 24" x 86" Gecanter, SS, 125 HP Bird 24" x 86" december, 304SS,

UNUSEO (3)
Bird 32" x 50" Decaeter, Monel, contour (2)
Bird 32" x 50" Decaeter, 304SS, contour
GeLaval NX214-31 B Decaeter, 304SS, 29 HP (2)
Etherplea A616V "Beper," SS (5)
Sharptea A62BV "Buper," SS
DeLaval B6PX-213-30, 316SS saparator/dealudgers (3)
Westista SAMH15037, Osshidger/Separator, 316SS
Westista SAMH15037, Osshidger/Separator, 818SS
Hrupp 19" pusher, 316SS, 16 HP
Baker-Perkins 19" pusher, 304SS, 40 HD Baker-Perkins 19" pusher, 304SS, 40 HP Sharples 27" D-Hydrstor, 316SS... spares (3) Sharpise 48" T-1600 auto-basket, 100 HP
Tolhural 48" Batchmaster, rubber lined, 30 HP
Sharpise 48" Tornado-Matic, SS, 25 HP
Oelevel 48" Mark 111, 816SS hyd.
CENTRIFUGE PARTS... Sharpise, Bird, DeLayal, atc.

### EVAPORATORS

2.4 sq. ft. Rodney-Huni SS, 3 HP
21 sq. ft. Sodney-Huni SS, 3 HP
21 sq. ft. Sodney-Huni Terbatiim #4, SS
97 sq. ft. Rodeey-Huei, 304 SS, Terbatiim
100 sq. ft. Praudier, 318L SS, wiped film
600 sq. ft. Goslin-8-irminghem dbl. effect, SS
854 sq. ft. Billovak dbl. affact, SS
1898 sq. ft. Billovak dbl. affact, SS 1888 sq. ft. Roger dbl. affect, SS Swenson 318SS cntinuous crystellixer, 9" x 14

TANKS & VESSELS

30,000 pel., 304SS, 14' x 24', colls, 200 HP agil. (4) 20,000 gal., 304SS, 12' x 24' [2] 17,000 gal., 304BS, 11' x 24' (3 17,000 gal., 318LSS, 14'x 18', Agif. (2 12,000 gal., 316LSS, 12'x 14', Agif. (5 10,500 gal., 316LSS, B' x 25' 10,400 pal., 304SS, 19'B' x 16', agit. 9,000 gal., 304SS, 19'6' x 12' 5,000 gal., 304SS, 9'x8', 25 HP agit. 3,500 gal., 30455, 8'x9' 3,000 gal., 30455, 7'x 19', egit.

### MIXERS, BLENDERS

3.5 cu. ft. Henschel #FM100, 17/20 KW 11.5 cu. ft. Henschel #115JSS, 92/46 HP 13.7 cu. ft. Lodiga #W600/K1200, mix/cool comb. 29 ce. ft. P-K twin shell SS 33 cu. ft. Abbe high Intensity, SS, 40/20 HP 35 cu. ft. Day Nauta, #HBX350, SS 43 ce. ft. Littleford #FKM2000E, BS, Choppers 43 cs. ft. Littleford #FKM2000É, BS, Chopper 52 cu. 0. Neutes 304SS Mixar (2) 60 cu. ft. Gemco., TW SH, Sanit, SS 99 cs. 6. Patterson dbl. cone, BS 70 cs. ft. Day Haula, #H9700, 10 HP 75 cu. ft. Day Haula, SS, Ittd., 75 cu. ft. Robinson BS ribbon blander, |ktd. 98 cs. ft. Day Nauta, SS, 1981 119 cu. ft. J.H. Day, dbl. ribbos, 31BSS 120 cu. ft. Clevelsed ribbon blanders (5) 144 cu. ft. 304SS dbl. ribbon blanders (5) 144 cu. ft. Paudler; dbl. cons. steps step liter 169 cu. ft. Plauder; dbl. cone, gless ateal jkid., vaceum 200 cu. ft. Young, ribbon, 6S

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COLUMN, 45" dia. x 15'9", 30488 CYCLONE, DuCon Mode) 700/175 304SS high sificiency cyclones, size 210, Type VM (8) DRYERS, Nooter 4' x 14' rolary vsc. dryer, 316L SS shell and jacket, incolory ribbon agit. ASME 100 pai/FV int. & jacket. 100 HP

DUST COLLECTORS, EVO raveras pulse, 100 320, 640 sq. ft. (4) FURNACE, C-E Air Co. "Cor-Pak" therme paydizers, direct gas fired

MIXER, Air mix blander system, Koppers-Sprout Waldron #36-50, 500 cu.ft., 30455 MIXERS, Wabb, 59" W x 15"L twin shaft paddle mixers or pug mille, 304SS contacts, (2) PULVERIZERS, Mikro #4TH pulverizere, 125 HP drlys, (15)

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#700/11D, pkgd. (2) Munson 90 cu.ft. bisnders, 80" dis. #7TS9D, pkgd. (2) 400 cu.ft. Gruendler ribbon blendera

(2) 215 cu.ft. Clevaland ribbon blanders (2) E)r)ch 1D' dia. Intensive mix muliais, motorized pen and mullers (2) Komline dbi. cons bienders; 320 cu.ft.

(1D' dla.), 69 cu.ft. (B' dls.) (3) Gruandler hammermills, 150 HP, 1980 (2) Gruandiar hammermills, 100 HP, 60 HP ) Mikro #8D etomizer pulverizer, 30 HP ) Mikro #4TH pulvarizer, 50 HP (2) Saw tooth brakars/crushers (2) St. Regts becoars

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Hoto-Filte Screw Dryer, 18" Sis. x 20" L., C/8, Jkt. trough.
Chromelox 20 KW Hot Oil Unit.
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Patterson 9 Seal Bell Mills, O'sa" & 0'55' and other sizes.
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110 Cu. Pt. C/8 heavy-duty ribbon blender, jkt. 20 HP. | maileois 0" 2 12" | 180 Noll Mill, U PP. 110 Cu. Pt. C/B heavy-duty ribbon blender, jkt. 20 HP. (2) Lelech 5/5 sanitary ribbon blenders, 12.25 Cu. Pt., 2 HP. J.H. Day "Nauta" Blander, 21, Cu. Pt. 310 8/5, MEX Voietor. (2) 4"x46" L. Tubes, 3198/5, 15 HP. Dorr-City or "Web-Trot" 0"x0" Rot. Vac. Filter, 310 8/5. Darr-Oilver "Web-Trof" D'x0" Rot. Vac. Filter, 310 8/S.
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Revy -Ross 10 get. Planetary Mixer S0 -Ross 10 get. SS jktd mixtruder 7½ HP mdl. AMK 15 -Strong-Scott 200 cu. II. C/B Ribbon Blender

### **FILTERS**

-Bird (Pannevie) Filter 85, 12"W z 17"L -Elmco 4"z 12" Vec. Belt Filter 310 SS - Enzinger Leaf Filter 85 366 eq. ft. -Evbez SS Rotery Filtern 8 z 0 -Funde Filter 4" dis., 95, |ktd. w/20HP Oriva -Funde Filter 4' dia., 55, [ktd. w/20HP Drive -Hercules Filter 500 sq. lt. 318 S8 -Indestriel Filter 100 sq. lt. Type 122 UD 21 MDL O MD -Shriver 36" ALP 310 SS, 41, 40 Chem (2) -Sperry 42" Plypro Filter Prese 48 Chambem -Ster SS Filter Pressas 18" (5) -US Autojat Filter 90 00 8 750 eq. lt.

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-Jellery Fluid 8ed Dryers 2\* 220\* SS (2)
-Patterson Kelley Twin Shell 103 cu. 11. vsc. processor
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Mateer Filler Model No. S3A Auger Type, SS/sani

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-Cowles Dissolver, 50/46/30/11/2/1 HP
-10HP, Dissolver, vari speed
-30HP, Hill Home Mixer
-Kady Mill, 100 gel, es, lktd., 30HP
-Ross 3 ROW Mill, lab, 44" z 10", 4"x6"
-Reitz dielniegrater \$5 5MP
-Schold Shot Mill 304 \$5 jktd. 100HP (2)

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### **GRINDERS & MILLS**

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-Cumberland Grinder Size 14
-Entaleter Comptact Milh, Type EllM, SS, 30HP
-Fitzmul Model # 40-5/00 Ad/12, 30 HP SS
-Dresca Colloid Mil, 31+9 0 5HP
-Micro Putverizer 4 TH (3)
-Patterson Ball Mil 3'24 | kt.
-Rotez Saranner 2' 24'/1'x3'
-Simpson Meeller 6"z5" size 2 VD mizer 20HP
-Sweco Separetor 40"/30"/24"/10"SS

### REACTORS

-4900 pel.310 SS reactor 00/500 psi halt pips jacket [4] -Ha rwsik 3000 & 750 gel. SS reactor dimple jktd F V/50 -Pteudier 9200 gel G/L Reactor 99/90 psi Useaed -Downington 1500 gel. Manel Cled reactor 55/70 pel -13,500 gel. 304 Etc Dim., Jktd, Reactor, 30/100 psi -Plaudier 500 gel. G/L jktd. vac. reactor



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# **IMPORTS**

Continued from Page 33 PARAFFIN WAX Diana 144 bxs (5397 lbs) (Koin Expresa) Hemburg, 11/18.
PARAFORMALDEHYDE T R America Chemicals 22 bk1

)45640 lbs) (See Land Adventur) Algeciras, 11/20. Troy Chemicar 842 bgs (43899 lbs) (Ever Gather) Keelung, 11/25
PATCHOULI OIL 258 dms )12163 lbe) (Evel Golden) Sin-

gapore, 11/14 PATCHOULI OIL CRUCE 150 dme (73010 lbs) (Ever Golden) Singapore, 11/14. PETTITGRAIN TAILS J Manheimer 14 dms [5628 lbs]

(Ove Skoul Rio D Janero, 11/24, PETROLEUM RESIN ARKON & SUPER ES Mirans 819 mix (36680 lbs) [Ming Universe) Kobe, 11/22. PETROLEUM RESIN ARKON P 125 Mitrans 840 bg8

(37037 lbs) [Ming Universe] Kobe, 11/22. Mirrans 1280 bgs (74074 lbs) (Ming Universe) Kobe,

Milrans 840 bgs (37037 lbs) (Ming Universo) Kobe.

Mitrens 640 bgs (37037 lbs) (Ming Universe) Kobe.

Mitrans 640 bgs (37037 bs) (Ming Universe) Kobe. Milaul 8611 bgs (338082 iba) (Ming Universe) Kobe,

PHENYLACETIC ACID Inter Manilme Fwdg 190 dma (22703 lbs) (Siafan Starzynski) LaHevre, 11/28. PHOSPHORIC ACID 1 bks (2265896 lbs) (Slott Avenir)

Rotteidam. 11/23 PHOSPHORUS PENTACHLORIDE 360 pkg (38825 lba) | Koin Extress) Bremerhavan, 11/18 | 11/26. | 11/26. | 11/26. | POLYACRYLAMIOE GRANULE Missublehi Chemical Ind | OUINIZARINE 4 CHLORO 2 AMINO PHE Barno Ships 2

POLYAGRYLAMICE GRANULE MISUDIENI Chemical Ind 600 bgs (30558 lbs) (Ming Universe) Kobs. 11/22.
POLYAGRYLATE Mirene 840 bgs (29983 lbs) (Ming Universe) Kobs. 11/22
POLYBUTADIENE STYRENE LUNG 20 pit (23369 lbs)

S.T. MINE

EQUIPMENT OFFERED Process Equipment for Sale: Baker-Perkins Ter-Meer centrifuge 316as, 5/ton/hour capacity with hydraulic push for unloading. Aeromatic fluid bed dryer 316SS, 200 kg/hours capacity. Baltimore air-coil cooling tower 125 ton.

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POLYPROPYLENE RESIN Manubeni America 1800 bgs (88624 lbs) (Ever Golden) Tokyo, 11/14. 1800 bgs (88624 lbs) (Ever Laurel) Tokyo, 11/19. POLYVINYL ALCOHOL Mitsubleth Intil 227 bgs (10115 lbs) (Regina Maersk) Kobe, 11/16. Perry Chemical 770 bgs (38847 lbs) (Ever Golden) Keelung, 11/14. POLYVINYL 8UTYRAL INTERLAYER Schenkers Intil Fwdrs 236 fill 83884 lbs) (Regina Maersk) Kobe, 11/14.

POLYVINTE BUTTHAL INTERLATER SCIENCE BILLION Ars 236 ril (23884 lbs) (Regina Maersk) Kobe, 11/18. POPPY SEED Schill Food Products 1240 bgs (82002 lbs)

ibs) (Dart Americana) Bremerheven, 11/20.
POTASSIUM PERCHLORATE Nu Tech Chemical Ind 150
dms (41867 ibs) (Atlantic Concert) Golhenburg, 11/

POTAS SIUM SORBATE US Brokere 200 dms (22288 lbs)
(Zim Hong Kong) Oseka, 11/18.
POTAS SIUM SULFOGUAJACOLATE Rhone Poulenc 12

PROPYLENE DICHLORIDE DISTILLED Leschaco 1 con

PROPYLENE DICHLORIDE DISTILLED Leschaco 1 con (4501 albs) [Ever Guei d) Rollerdam, 11/17
PROPYLENE DICHLORIDE Leschaco 1 con (46297 lbs) [Ever Gong) Antwerp, 11/23
PSEUDOEPHEDRINE Leschaco 12 dnis [767 lbs) (Streth-

conon) Bramerhaven, 11/25
PSEUDOEPHEDRINE HCL Leschy

PSEUDOEPHEDRINE HCL Lescheco 20 dms (1278 lbs) (Strethconon) Bremei haven, 11/25. Rohde & Llesenfetd 20 ctn (1235 lbs) (Britis Thien) Hemburg, 11/2B. PVC Fetrero 356 pkg (8148 lbs) (Alve Maerak) Leghom,

PVC COMPOUND POWOER Cobuin 22 bin |48184 lbs) (Ever Summit) Fos, 11/19, PYROGALLIC ACID POWDER 20 drns (2425 lbs) (Ming

Universe) Kobs, 11/22.
OUINIO/NE SULFATE HYDROCHLORIDE Lassen Inti Fwdia 31 dme (4544 lbs) (Dari Atlentica) Bremerheven,

OUINIZARINE 4 CHLORO 2 AMINO PRIE Barrio arrigo 23 dms (4883 lbs) (Ming Universa) Kobs. 11/22. RED PHOSPHORUS Hummel Chemical 100 dms (12125 lbs) (Ever Laurel) Osako, 11/18.

(Colionia Sia) LeHovie, 11/22.
POLYETHYLENEM & S.1 ct (1047 tos) (8ea Land Daval SENNA LEAVES Mittzer & Muench 180 bgs (18851 lba open) Rotterdem, 11/23, (Sire theorem) Rolledgem, 11/25.
POLYPROPYLENE A One Peckaging Products 35 pli (38790 lbs) (California Stor) Hamburg, 11/22.
SILICA GEL D DC Inter Martiline Fwdg 28 pkg (8824 lbs) (Regina Maersk) Tokyo; 11/12.

SILICONE OIL Inter Merilime Fwdg 28 pkg (8624 lbe) |Regina Maersk) Tokyo, 11/18. 6ILICONE TETRACHLORIDE Miksul 1 dms (77 lbs) (Ever

Gelher) Tokyo, 11/25. SODIUM &ICARBONATE Prescott 700 bgs (38889 lbs)

[Regins Meersk] Kobe, 11/18.
SODIUM SICARBONATE N Witues Products 1583 pkg (121703 lbs) (Ever Guard) Antwerp, 11/17
SODIUM SISULFITE General Plastic & Chemical 350 bgs (136539 lbs) (Heidel Rotterdem, 11/18.
6ODIUM CARBOXY METHYL CELLULOSE Robeco Chemicals 20 brs (0 lbs) (Ever Guerd) Rotterdem, 11/18.
SODIUM CASEINATE De Zeen 800 bgs (44771 lbs) (Ever Guerd) Rotterdem, 11/19.

Gong) Rotterdam, 11/23. SODIUM DICHLOROISOCYANURATE 260 dms (78814

ibs) (Ever Gather) Oseke, 11/25.

SODIUM FERROCYANIOE A M Ses & Air Service 800 bgs (45238 ibs) (Ever Going) Feliratowe, 11/23.

SODIUM FLUORIDE CRYSTALLINE Trans World Shp 8 700 bgs (38973 lbs) (Ever Gather) Oseko, 11/25 SODIUM FORMALDEHYDE SULFOXYLATE Stute Inti 440 dms (78565 lbs) (Ever Laurel) Keohslung, 11/

SODIUM HYPOPHOSPHITE MONOHYDRATE 124 dnis |41204 lbs) (Ever Summit) Fos. 11/19. SODIUM METAPERIODATE SMP 2 dms )229 lbs) |Dert

Americans) Felixatowe, 11/20 SODIUM METHOXIDE POWDER Kay Fries 152 dnis N L Ind 1600 bgs (9.2540 lbs) (516140 starzynskij ere-nierhoven, 11/26.
TOBIAS ACID Silvey Silvey 300 bgs (18733 lbs) (Ever Leitrel) Horig Kong, 11/19
TOLONATE HDT 90 Rhone Poulenc 700 dms (34105 bs) (Independence) Mersellie, 11/18.
TORULA YEAST FOOD ORADE Nestle 720 bgs (40124 lbs) (11/18) (38457 lbs) (Evel Guard) Hernburg. 11/17
SOOIUM NITRITE Browning Chemical 380 bgs |41050 lbs) (Helde) Rotterdem, 11/19
SODIUM PERBORATE FMC 818 bgs (93688 lbs) |Aive

Maeisk) Valencia, 11/18. 1832 bgs (187385/bs) (Alve Meersk) Velencia, 11/19. FMC 640 bgs (37143 bs) (Alve Meersk) Velencia, 11/

Degussa 420 bgs (42483 lbe) (Koln Express) Antwerp. 11/18. SODIUM PERSUI FATE Milaubishi inii 640 bgs 135697

bs) (Ming Universe) Yokohame, 11/22. SODIUM PHOSPHATE DIBASIC JGR Resources \$80 bgs (38378 lbs) (Zim Hong Kong) Osaka, 11/19 SODIUM SACCHARIN 450 dme (47399 lbs) |Zim Hong

Kongi Osaka, 11/18. AODIUM SULFHYDRATE FLAKE UTC 380 bgs (39851

BODIUM SULFHYDRATE FLAKE UTC 380 bgs |39851 lbs) (California Sisi) Anliwerp, 11/22.

SODIUM TRIPOLYPHOSPHATE Brewning Chemicel 1700 bgs (92271 lbs) (Helde) Hamburg, 11/19.

560 bg (887808 be) |Strethconon) Rotlerdam, 11/25.

SODIUM TRIPOLYPHOSPHATE Browning Chemical 850 bgs (45121 lbs) (Britis Thien) Hemburg, 11/26.

Browning Chemical 800 bgs (83422 lbs) (Britis Thien) Hemburg, 11/28.

Browning Chemical 1700 bgs (92271 lbsv) |Britis Thien) Hemburg, 11/26.

SORBITOL E M Ind 80 pil (87855 lbs) (Alientic Service) Bramarheven, 11/12.

Bramerneven, 11/12. PANISH PAPRIKA Sevino Del Bene 100 bgs | 11087 lbs)

(Colombo) Velencie, 11/24.

9TAR ANISE House of Lawrence 50 cm (0 lbs) (Ever Gether) Hong Kong, 11/25.

STARCH 812 bgs (31032 lbs) (See Lend Developer) Rol-

lerdam, 11/2S.
SULFAMETHOXAZOLE Shionogi 154 dme [18573 lbs)
(Regins Maerski Kobe, 11/16.
SULFURIC ACID H P Korn 2 cs [331 lbs) (Koin Express) Hemburg, 11/18. JLFURIC CHLORIDE ICT Consultents 1 Ink (13960 lbs)

(Heldo) Rotterdem, 11/19. TIARY DODECYL MERCAPTAN 2 con (84038 lbs) (Ever Summit) Fos, 11/19. TETRAPOTASSIUM 380 bgs (39881 lbs) (Strelliconon)

Rollerdem, 11/25. THOSALICYLIC ACID Penson 2 dms (251 lbel |Evel Oather) Keelung, 11/25. YME COM French Line 2000 bgs (44092 lbs) (Aliantic Concert) LeHevre, 11/11. Louis Furth 270 aks (29762 lbs) (Colombo) Valencia.

11/24 THYME LEAVES Louis Furth 1088 bgs (70548 lbs) (Inde-

pendence) Velencie, 11/18.
TIN OXIDE Alba Fwdg 10 dms |5357 lbe) (Ming Universe)
Yokohame, 11/22
TITANIUM OIBORIDE OTE Products 1 cs |1294 lbs) (Atlantic Concert) Liverpool, 11/11. Blue 8al Chemical 880 bgs (44137 lbs) (See Lnnd Ad-

venturi Algecires, 11/20

Dorsett S Jackson 880 bgs (44137 lbs) (Sea Littid Adventuri Algecires, 11/20, N L ind 2400 bg8 (124472 lbs) (Koin Express) Antworp.

11/18. 3200 bgs (1858B4 lbs) (Strathconon) Rollerdain, 11/ 25.

**Quick Study? Chemical Profiles** 

SCM 4400 bgs |227284 lbs) (See Land Developer) Rol-tordam, 11/23 4400 lrgs |227284 lbs) |See Land Developer) Roller.

1400 ligs (227281 lbs) (See Lend Develope) Rober.
dain, 11/28.
Superior Maloriels 2400 bgs (120372 lbs) (See Land
Adventin) Algebras, 11/20.
TITANIUM OIOXIDE A X Leschado 4580 bgs (236600 lbs)
(Kon Expross) Antworp, 11/18.
Kontia 640 bgs (33345 lbs) (Siefen Starzynski) Bremer-

Neven, 11/26 Kenning 779 mink (39590 lbs) [Strethconon] Bramer

Remine 773 mix (Japan IDS) [Streincohen) Bremer-inkon, 11/25.

Ore & Chemical 160 bos (9085 Ib5) (Stefan Starzynski)
Rotterdent, 11/26.

Huxley Raw Materior 760 bgs (39590 Ibs) (Stefan Storzynski) Bremerhoven, 11/26 keich a 760 bgs (39590 Ibs) (Stefan Sterzynski) Bremer-

N L Ind 3200 bgs (103952 lbs) (Allantic Concert)

Oothonburg, 11/11. nlinno Poulenc 1600 bgs (83887 lbs) (Strathcoron)

N L loct 900 tops (18230 lbs) (Ever Guard) Antwerp.

2700 bgs (138593 lhs) (See Land Voyagari Rotterdam,

11/26. N L lud 1600 bgs (02540 lbs) (Stelan Starzynski) Bre-

Itisj (Heido) Rottordam, 11/19.
TRICHLORO ISOCYANURIC ACID 625 dms (197036 lbs)

| Ever Laison| Osake, 11/19, |Ever Laison| Osake, 11/19, | 750 dms (236443 lhs) | Ming Universe| Kobe, 11/22, | 375 rlms | 118222 lbs) (Ever Gather) Osaka, 11/25, | RIETHANOLAMINE 73 dms (39912 lbs) (Koin Express) | Antwern 11/12

Antweip, 11/18
TRIOCTYL PHOSPHATE Tolpaz Tol 40 dms [17196 bs]

(Deri Americane) Felixstowe, 11/20. TRIPHENYL PHOSPHATE Monsento 840 bgs (35773 bs) (Strethconon) Felixstowe, 11/25.

ULTRAMARINE BLUE Elco Shpg 8 pli (25105 lbs) (Heide)

Rotterdam, 11/19. ULTRAMARINE PIGMENT Elco Shpg 18 plt (Ults) (Hede)

Rotterdam, 11/19.

Rotterdam, 11/19.

ULTRAMARI/NE PIOMENT Whitlaker Clark & Danels 720 bgs (41310 lbs) (Atlantic Concert) Liverpool, 11/11.

768 mix 1-11804 lbs) (Derl Americans) Feixslows, 11/

VANILLA BEANS Elon Chemical 200 ctn | 1 (023 bs) (2m

Flong Kongi Hong Kong, 11/18 VINYL PYRROLIDONE 1 mk (39815 lbs) (Britta Thian) Hambring, 11/28, WOOL OREASE Av. Intl 100 dms (45753 lbs) (Heide)

WOLL OREASE Avi Intl 100 drns (45763 lbs) (Helde)
Roller dam, 11/19.
Containership Agency 67 drns (31105 lbs) (California
Ster) Falixistowe, 11/22
Joseph H Lowenstein & Sons 74 drns (33309 lbs) (Callfornia Sim; Folixistowe, 11/22
XYLENOL 1 trik (43982 lbs) [Helde) Hamburg, 11/19
XYLIDINE Mohny Chomical 1 drns (489 lbs) (Strathconon)
Rotterdom, 11/25

Rotterdam, 11/25 ZINC PYRITHIONE P & G Mig 200 dms [56923 lbs] (Cal-

lointin Start Biomon, 11/22 ZINC SULFATE MONOHYORATE TECHN United Mineral & Chomical 1050 bgs (79260 bs) (Britts Thieri Rot-

ZINC SULPHIDE USR Optonix 88 dms (26001 lbs)

(Roginn Mneisk) Tokyo, 11/18. ZIRCONIUM CARBONATE PASTE F B Vandegrili 180

Need a

terdam, 11/28.

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|-141 cu. ft. Day Mod. MBX1418\*\* "Hearis\* "Bander-364 8/8 |
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18-60 cu. ft. Patterson D.C. Blenders S/8-57,20,10,8
18-60 cu. ft. Patterson D.C. Blenders S/8-57,20,10,8
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## Gov't Rules **Force Change**

It's a question of survival for many products in the US organic solvents market - and survival means basically one thing: meeting standards set by the Environmental Protection Agency and other Federal as well as state agencies.

The vital role that government regulations play in the solvents industry becomes apparent in a new report from Frost & Sullivan, Inc., New York, which forecasts a total market value of \$2.5 billion in 1990 - impacted greatly by government restrictions on use.

Growth areas in this market include, for example, glycols used in antifreeze and the manufacture of polyesters. They have relatively low toxicity and volatility.

Fiuorocarbon 113, another example, is lations.

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used in dry cleaning and also for cleaning sensitive equipment such as electronic componenta. The compound has low toxicity, is non-fiam mable and non-explosive and is projected to grow 7.3 percent a year. By contrast, consumption of hydrocarbons, high in both toxicity and volatility, will show s marked decline.

State laws and local regulations, such as the emissions rules In Los Angeles County, as weil as Federai iawa ilke the Clean Air Act of 1970 and the Toxic Substances Control act of 1976, determine which solvents will experience market growth and which will decline.

The F&S report details and analyzes specific regulationa and policies, the reasons behind them, and how they affect markets.

By far the largest end use for industrial solvents is in painta and coatings. This category alone accounts for one-third of total market volume in the US. This is also the category most affected by government regu-

# **Cooper Unit Sells Reagents**

Cooper Development Company announced last week that Its affliiste Cooper Technicon, Inc., has sold its blood bank reagents and immunochemicais business units to Organon Teknika, a subsidisry of Akzo Pharma B.V., the health care division of Akzo N.V. of the Netherlands, for cash.

"The divestiture of these business will allow Cooper Technicon to focus on its core automated medical diagnostic business and wiff enable it to reduce outstanding indebtedness," said John L. Edwarda president of Conner Development

Organon Teknika, with headquarters in Turnhout, Belgium produces diagnostica for blood banks, clinical and hemostasis laboratories, nephrology products as well as neuromuscular blockers. Their annual saiea wili total approximately \$1 billion in 1986.

Cooper Technicon, formed in August 1986 from the combination of CooperBlomedical and Technicon Instruments Corp., is headquartered in Tarrytown, N.Y. The company develops, manufactures and markets automated medical diagnoatic systems and reagents as well as almllar product lines for

Cooper Development Company developa, acquires and invests in businesses involve din emerging medical technologies.

### **Vaccine Shortage**

Continuad from Page 7

top-ranking official of your department and by a drug-industry funded group—hae al-ready wasted public health dollars and will result in more waste when high-risk young people who were denied the vaccine incur medical expenses for treatment of flu and llu consequences." Dr. Wolfe wrb(e.

"Paradoxically," (he letter continued. "the Federal government has supported immunization of people wo do not need it and, due

to a limited aupply of the vaccine, thereby denled it to people who do." As a result, Dr. Wolfe said he fears the

epidemic could turn out to be worse than it might have been.

A spokesman for Dr. Windom sald the text of Windom'a remarks at the news confefence correctly stated that the vaccine was recommended "for high-risk children and young adults under the age of 35." He said Dr. Windom would not respond to Public Citizen until he haaseen Dr. Wolfe's ictter.

### Shell is Latest

Continued irom Page 7

part of OSHA'a chemical industry special emphasis program. About 2,800 workers are employed at the refinery and chemical man-Ufacturing complex.

Sheii said the problem apparently resulted from a difference in interpretation over what job-safety data the company is required to report to Federai officials.

"In 32 previous viaits over more than ten yeara, OSHA has never chailenged our (Decr Park comptex) record-keeping procedures." a company apokesmun noted. ffe also asserted that the 6i citations are unrelated to worker licaith and safety.

A williful violation is defined by OSHA as one in which an employer either knew that what was helng done constituted a violation or was aware that a hazardous condition existed and made nu reosonable effort to climinate it: a serious violation as one where there is substantial probability that death or eerious physical harm could result, and that the employer knew or should have know of the

### Lilly to Acquire

Lilly Industrial Confings has agreed in principle to acquire London Laboratories Limited for approximately \$8.5 million Lonrinn Labs, based in Woodbridge, Conn., is a supplier of silver plating rhemicals, with sales in excess of \$10 million.

## **ADVERTISERS' INDEX**

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publications that mean business. for your chemical products and services 100 Church Street, New York, N.Y. 10007 # 212 / 732 - 9820.

CHEMICAL MARKETING REPORTER

CHEMICAL MARKETING REPORTER

December 29, 1986

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SUPPLY	<del></del>
PRODUCER	CAPACITY
Rom. Warner Harmanian III	CAPACII
Borg-Warner, Morgantown, W. Va.	
Exxon, Lindan, N.J	20
GAF, Calvert City, Ky	40
GAE Lindon N. I.	
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i Neiama, Kalama, Waah	20
Moneanto, Kearny, N.J.	
Robm and Hose Door Book Ton	
Rohm and Heas, Deer Park, Tex.	<i>.</i> 40
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Scholaciady, Ronergam Junction N Y	O.E.
Schenactady, Freeport, Tex.	· · · · · · · · · · · · · · · · · · ·
Toyon Doublest	· • · · · • · · · · · · · · · · · · · ·
TOTALOGITOTINGCHES. INC	00
Uniroyal Chemical, Neugatuck, Conn	10
Totel	

\*Millions of pounds ennually of nemeplele capacity. Some capecily figures are oversieled es figures for most producers include production capabilities for other elkylphenols, euch se dodscylphenol. Borg-Werner ceesed production of dodecylphenol in the first querter of 1986. Schansctady expanded its capacity to produce other alkylphenols in 1966. Profile last published 12/12/83; this revision, 12/29/66.

1985: 185 million pounds; 1986: 190 million pounds; 1990: 215 million

Historical (1976-1985): 5 percent per yaar; future: 3 percent per year through

### PRICE

Historical (1952-1988): High, 50c. per pound, tanks, fraight allowed; low, 14½c. per pound, same basis. Current: 35c. to 40c. per pound, same basis.

### USES

Surfactants (primarily industrial end institutional), 70 percent; rubber and plastic antioxidants, 20 percent; other, including lube oil additivea, 10 percent.

### STRENGTH

Demand for nonyiphenol ethoxylate surfactants is strong, reflecting incressing cleaner consumption by servica-oriented industrias such as restaurants and hotels. Low nonyiphenol costs assure that linear alcohol athoxylates will not encroach upon this market.

Industry oversupply has meent that producers have had to paas lower feedstock cost savings through to consumars: prices fall 20 percent over the past

### OUTLOOK

The current consolidation and rationalization in the athoxylates business should lead to batter margina for nonylphanol producers. Nonylphanol ethoxyletas hava baen banned in Switzerland and ere under scrutiny in West Germany bacause of biodagradability concerne; for the long-term, US producera are apprehensive about similar actions here.

# **Programs for Engineers**

Competition in the chemical industry demands that engineers solve complex problems quickly. Although many engineers have powerful mitrocomputers to assist them, the time saved is not as great as it could be herause of a severe lack of ready-to-use programs. This volume\* seeks to remedy the situation by offering a step-by-step analysis of dozens of practical programs that can be applied as is, or modified, to hamile individual situations.

The programs offered are designed to solve problems heross a broad spectrum from thermodynamica, hent transfer and pollution control to mathematics, physical properties of chemicals and conomics. A completed sample run of each program shows how it works and many of the programs come with essential data, saving time in searching obscure sources for

\*BASIC PROGRAMS FOR CHEMICAL ENGINEERS, By Dennis Wright, Cloth, 340 pages, 6 X 16 inches. Van Nostrand Reinhold, 115 Fifth Avenue, New York, N.Y. 10003, \$22.95

# Japanese Technology

This series of studies\* on Japanese technology assesses Japanese research and development in four of today's most visible high-technology areas; computer science, opto- and microelectronics, mechatronics (a term used by the Japanese to describe the union of mechanical and electronic engineering necessary to produce the next generation of machines, robots and the like), and biotechnology.

The evaluations were conducted by panels of leading US scientists — chosen from academia, government and industry — who are actively involved in research in their area of expertise. The main focus of the assessments is on the current status and long-tene direction and emphasis of Japanese research and development. Other aspects covered include evaluation of the state of the art, identification of key Japanese researchers, R&D organizations and resources and comparative US efforts.

The volume is an account of work sponsored by the Japanese Technology Evaluation Program (JTECH) which is operated for the Federal government by Science Applications International Corporation (SAIC) to provide definitive technical assessments of emerging Japanese thrusts in selected high technology areas.

\*JAPANESE TECHNOLOGY ASSESSMENT, By 3, Albus of all for Science Applications International Corporation, La Jolla, Calif. Cloth. If X 935 inches, 507 pages. Noyes Publications, Mttl Road at Grand

# Industrial Chemistry Survey

Emphasizing business aspects rather than engineering, this volume\* seeks to fill a void in the otherwise abundant literature on this subject. The introduction describes all of the Important areas of the chemical industry from an economic perspective. After an overview of the leading chemicals and chemical companies, the book discusses each of the industry's major arcus in detail.

Generally these are chemical products, chosen for inclusion based on their value-added to the chemical industry's contribution to the Gruss National Product, as listed in the Annual Survey of Manufacturers, which categorizes the notion's industries by Standard Industrial Code (SIC) numbers.

Elghty-four percent of the industries listed under Chemicols and Allted Products (SIC 28) ore covered. Also, other industries in which themistry plays a crucial role are described. including Paper and Allied Products (SIC 26), Petroleum Refining (SIC 29), and Rubber and Miscellancous Plastic Products (SIC 3B).

\*SURVEY OF INDUSTRIAL PRIEMISTRY, By Philip J. Phenier, Plath, 6 ½ X 9 ½ luches, 422 pages. John Wiley & Sons, Inc., One Wiley Drive, Somersel, N.J. 10073. \$45.00.

# CHEMICAL PROFILE BOOKSHELF / JOBS & PEOPLE {{{ }}} JOBS & PEOPLE

Dr. Wayna Godwin, who has bean named prasi-dant of the Cibers Division and Caeculty, vicepresident of BASF Corporation, effective April 1, 1967. Ha is currently president of SASF Struc-

LONNIE U. HAYNES JR. has been named en account supervisor for coatings and adhesives sales in the technicat marketing group Hercules Incorporated... THOMAS J. ALAFRONTE has been appointed business manager for surfactants and specialty onomers in the process chemicals department of American Cyanamid Company... CITARLES W. EMMERICH has been named general manager of Pctro H-R in Caracas, enezuela, by H-R International.

KOOK-JIN BAE has been appointed technical service representative for polymer addi-

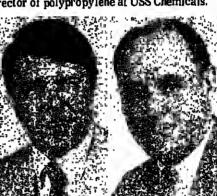


### **Aristech Chemicals** Names Executive Officers

Artstech Chemical Corporation, formerly the USS Chemicals Division of USX Corporation, has appointed Chartes W. Hamilton aentor vice-president of chemicals and specialty products and James J. Driscoll Jr. vice-presi-

Mr. Hamilton will be responsible for production, research and development, and worldwide marketing and aales of chemicals and specialities.

Mr. Driscoll was previously managing director of polypropylene at USS Chemicals.



tives in the Argus Division of Wilco Corporation... STEVEN N. GABELMAN has been named marketing manager of flexible slabstock urethane at Union Carbide Corpora-Iton... HOWARD L. BRAINAID has been named marketing manager of resins and additives at Inolex Chemical Company.



WILLIAM R. GALLOWAY JR. has been named chairman, president and chief executive officer of Petroferm Inc., which develops technologies in the petroleum, electronic eneraleals and books care Octor. IUSTIN



William J. Freund, who has been appointed vico residant of globel specially chemicals at Johnof Johnson Wax's specially chemicals bu

commercial evaluation and development to the Development Division of M&T Chemi-

ROR WEISE has been named sales representative covering Northern Hetroit and the Flint and Saginaw areas in Michigan for ChemCentral Corporation, DAN W. YINGER has been appointed a sales representative in the Atlanta area, ROBERT WILSON has beennamed a sales representative in Greenshoro and JERHY WILLIAMS has been appointed sales manager in Detroit. GEORGE R. GREENLEE has been named



**Dow Chemical Names** Associate Scientists

Dow Chemical Company has named Frank Saunders an associate scientist in the Polymerte Materials Laboratory and Richard Solem an associate scientiat in the Advanced Technology Applications Research Labora-

Dr. Saunders joined Dow In 1953. He has heen awarded 21 patents and is the author of 17 publications. Dr. Saunders Is an expert In colloids and latex polymers.

Mr. Solem joined Dow's apecial assignment program in 1966 and has worked on a variety of assignmenta in the Michigan Divi-



district manager for "Bombnaster" products at National Starch & Chemical Corporation. WILLIAM L. FAGLEY has been appointed husbness counselor for Dow Chemical Company... RAMESH RATAN has been named



**BUSINESS BRIEFS** 

vice-president for finance and administra-

llon at Repligen Corporation. CARL U. NABLO has been appointed senior sales representative at Unocal Chemicals Diviaton of Unocal Corporation, responsible for developing distribution business in Eastern Tennessee and parts of Georgia.

# **BUSINESS BRIEFS**

DU PONT next year will award cash prizes of \$10,000 in each of two categories - new construction and reconstruction - to recognize excellence in architectural design. The awards program, open to all US and Canadlan registered architects, will be limited to butldings completed within the past five years that incorporate single-ply membrane

DEGUSSA AG of West Germany has established a sates company in Istanbul, Turkey. The company, known as Degussa Tlcaret Ltd., with be responsible for all the Degussa activities previously conducted by Boykim AS of Istanbul.

synthetic rubber.

IBF SA, a blotechnotogy firm based in France, has created a US subaidlary, IBF Blotechnics Inc., based in Savaga Md. The new company with distribute chromstography and tissue cutture reagents in the US and

line of silica-based gels.

MOBAY CORPORATION has published a new "Merlon" polycarbonate dealgn manual. The 48-page brochure addresses design considerations including structurat design, design calculations, the influence of ortentation, design details to permit proper processing lechniques, eler and tolerances.

PEER CHEMICAL, Wheeling, Ill.-based supplier of organic pigmants, has appointed Pacific Coast Chamicals Company of Berke tey, Calif., as its Wesl Coaat area representative. Pacific Coast Chemicals will be responsible for marketing Peer's product line to the ink, paint, coatings, ptaatica and industrial finishing market.

TIONAL, Grend Prairie, Tex., says it has

polypropylene injection molding applications. Tha material, when used at low conceo-Irations with polypropylene resins, will increase melt flow and improve processability. the company says. Improvement in part production rates of 25 percent have been estabtished for hard-to-fill multi-cavity molds without losa in physical performance, according to the firm.

RHONE-POULENC ARGOCIIIMIE IS combining all of its operations in Japan into a new subsidiary, Rhone-Pulenc Agro KK, which will be responsible for devetopmen and sales. The new company witt be a 50-50 joint venture of Rhone-Poutenc Agrochtmla and Showa Rhodia Chemical. The latter ts a joint venture of R-P and Showa Danko. Shows Rhodto will continue to manufacture oxndlazon, a herbictda used in Japanese

tion, storage and trading, has acquired E.T. Horn Company, ao Importer and distributor of specialty chemicals in the US. E.T. Horn represents approximately 30 major US and foreign chemical companies in the food, paint, pharmaceutical, plastics, adhesives and electronic industries.

WITCO CORPORATION'S Humko Chemicat Division has installed computer-controlled bagging lines that can automatically nuckageany of more than 200 different oleochemteal products in an integrated production operation at ils Memphis, Tenn., pinnt. The installation includes two lines that fill, seat and weigh 50-pound bogs of ftaked fatty chamicals in a sequance of oparations direcied by computer. Operators are needed only to remove bags from the sceles at the end of the tines and to stretch-wrap patiet losds with plastic film, secording to the com-

CHEMICAL MARKETING REPORTER

patroloum congress, international forum for axchange CHEMICAL MARKETING REPORTER

**JANUARY** 

ASSOCIATION OF THE NON-WOVEN FARRICA INDUS-

TRY, Ihird highloll and liberful conference, Executive

EMICAL INDUSTRY ASSOCIATION, luncheon meet-

ing, Prinker Metichen Hotel, New York, Jenuary 29.

COMMERCIAL BEVELOPMENT ASSOCIATION, 8th an-

SOAP AND DETERGENT ASSOCIATION, 60th Annual

LATER ON

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS,

AMERICAN PETROLEUM INSTITUTE, 12th world

otol. Washington, D.C., February 3-5

center for chemical process safety. International con-terence on chemical calaty issues, Omni Shoreham

Meeting and Industry Convention, Boca Retort Hote!

and Club, Boca Raion, Fla., Jenuary 29-February 1,

Delphi Markeling Sorvicos, Inc.

lol. New York, Jenuery 26,28

arlone, N.C., January 27-28.

Si et annual dinner, Waldorl-Astona Hotel, New York, December 29, 1986

MEETINGS CALENDAR

PURCHASINO MANAGERS, mid-Winter conference.

"Purchasing -- Opportunity In e Changing World," Beton Rouge Hilton Hotel, Baton Rouge, La., Febru-

Housion Meeting, "The US Chemical Industry-Re-

sponding to Change. "Weelin O alleria Hotel, Houston, Tex., February 4-5, 1987.

ATION, 73rd mid-year meeting, Chicago Marioli Ho-

CHINA CHEM '87, international exhibition on chemical end

CHLORINE INSTITUTE, Winter meeting, Mayflower Ho-

DRUG, CHEMICAL & ALLIEO TRADES ASSOCIATION.

lei, Chicago, III., April 26-29.

tion Center, Beljing. Chine, April 3-9.

iel, Weshington, D.C., March 15-18.

melion ebout the percleum industry, Houslin, Tex , April 28-May 1. Merch 18; Spring luncheon, Sheraton Centre Hotal, ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 12th annual Spring workshop and exhibition, Skyline Ottawa Hotel, Ollewe, Onlario, Canads, April 27-30.

FERTILIZER INSTITUTE, 1887 ennuel meeling, Marrioti CNEMICAL OROUP OF NATIONAL ASSOCIATION OF Orlando World Center, Orlando, Fla., Februery 1-3. FIRE RETARDANT CHEMICALS ASSOCIATION, Injerne-

tional conference on liame retardancy and fire selety. Sheraton New Orleans Hotel, Na

CHEMICAL MARKETINO REGEARCH ASSOCIATION, INSTITUTE OF GAS TECHNOLOGY, 11th annual sympoelum onenergy Irom blomass end wastes. Hotel Royal Plaze, Walt Disney World Village, Suena Viete, Fle.,

CHEMICAL SPECIALTIES MANUFACTURERS ASSOCI-INTERNATIONAL PRECIOUS METALSINSTITUTE, 11th International precious metals conference, Brussels, Selgium, June 14-18, petrochemical industries, Chine Internetional Exhibi-

INTER-SOCIETY COLOR COUNCIL, scientific conferance, Williamsburg Lodga, Williamsburg, Ve., Febru-

NATIONAL PETROLEUM REFINERS ASSOCIATION, 85th annual meeting, Convention Center, San Anto-nio, Tex., March 29:31; 12th Internetional petrochemical conference, Convention Center, San Antonio

**December 29, 1986** 

POLYURETHANE MANUFACTURERS ASSOCIATION, Spring meeting, commercial development of new castable systems. Fairmont Hotel, Dallas, Tax., April

SOCIETY OF MANUFACTURING ENGINEERS, adneti, Ohio, Februery 17-19.

SOCIETY OF PLASTICS ENGINEERS, South Texas BBC tion. Iifth internetional conference on polycleline Wyncham Hotel-Graenspoint, Houston, Tex., Febru geles, Call., May 3-7.

SOCIETY OF THE PLASTICS INDUSTRY, 42nd annual contarence of the composites inetitute, Cindinal Convention 8 Exhibition Center, Cindinal Onio. February 2-8; vinyl formuletora division, 9th annua ting and conference, Deetin Hiton Hotel.

THE FERTILIZER INSTITUTE, 1987 Annual Meeting Meeting Orlando World Center, Orlando, Fla. Fatter riott Orland 1-3, 1887.

ptete line of gels for chromatography and a

RESEARCH POLYMERS INTERNA-

VAN OMMEREN, the Rotterdam-besed service group involved in worldwida transporta-

Canada. IBF says it has davetoped a com- developed a catatysi concentrate for use in Dacember 29, 1988 .

# Dec. 29, 1986

### **NEWS AT HOME**

Adhosives Plent Stated by Fulfor . . . 4 Artvenced Materiels Use Grows . . . . 5 Ashestos Coalition Formod...... 5 'Bendectin' Award Overturned..... 5 Burnhem, Schuler Elected...... 5 Cerbido Solle Ag Unit ..... 3 Chomical R&D Spanding Up ..... 4 Columbian Sole Complete . . . . . . . . 4 Damon Blotech Wins Potent . . . . . . . 7 Ou Pont Scorae Aromid Victory .... 3 Du Pont Solla Polyeeter Units . . . . . 9 Exxon Starts Up Roein Unit . . . . . . . 4 Filter Optic Sensor Merket Grows ... 7 FMC Sells Chlorelkell Plent ...... 3 FTC May Oelay Acquisition..... 9 Gov't Ruise Puch Solveni Changs . . ? Himont Ollers Shares..... 5 Kermes Nomod SmithKline E.V.P... 9 Leprosy Drug Approved....... 5 MDI Growth Will Slow ..... 3 Methylene Chloride Limits Urged... 7 Pesticide Restrictions Extended ... 4 Textile Market improved in '88 . . . . . 7 Veccine Shortege Feered ...... 7

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OILS, FATS & WAXES	10
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PLASTIC MATERIALS	21

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### CMR MARKET INDEX

	AT I HANEY
CHEMICAL MARKETING REPORTER's market index of chemicals and related materials (100=1974 average), based on 97 key commercial chemicals, appears alongelde with data for two weeks ago, last month and last year.	Dec. 12, 1966 151.5 Nov. 28, 1966 151.8 Dec. 27, 1985 154.1
last year.	Chamical Prince Start As No AA

sal Prices Start on Page 24



acid, oleic acid, isosteanc acid, sebacic acid, hydrogenated tallow acids and tall oil fatty acids

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### CHEMICAL MARKETING CUES

NONYLPHENOL: Consolidation will lead to better man gins . . . . Page 42 DEG: Price hikes are slated by most major product ers. Page 18
PERFUMES: Synthetic musk prices expected 10 rise. FERRIC CHLORIDE: Producers face a mostly softing ket ket